# **Clinical trial results:**

A phase II, randomized, active controlled, open label study of safety and efficacy of HM10560A a Long-acting rhGH-HMC001 conjugate in treatment of subjects suffering from adult growth hormone deficiency (AGHD)

Summary

EudraCT number	2011-001826-61	
Trial protocol	HU PL BG	
Global end of trial date	29 June 2015	
Results information		
Result version number	v1 (current)	
This version publication date	02 November 2016	
First version publication date	02 November 2016	

Trial information

Trial identification		
Sponsor protocol code	11HM10560A201	
Additional study identifiers		
ISRCTN number	-	
ClinicalTrials.gov id (NCT number)	-	
WHO universal trial number (UTN)	-	
Notes:		

Sponsors		
Sponsor organisation name	HANMI Pharmaceutical Co., Ltd.	
Sponsor organisation address	14, Wiryeseong-daero, Songpa-gu, Seoul, Korea, Republic of, 138-724	
Public contact	Executive Director, HANMI Pharmaceutical Co., Ltd., +82 24109041, jhkang@hanmi.co.kr	
Scientific contact	Executive Director, HANMI Pharmaceutical Co., Ltd., +82 24109041, jhkang@hanmi.co.kr	

Notes:

Paediatric regulatory details	
Is trial part of an agreed paediatric investigation plan (PIP)	No
Does article 45 of REGULATION (EC) No 1901/2006 apply to this trial?	No
Does article 46 of REGULATION (EC) No 1901/2006 apply to this trial?	No

Notes:

Results analysis stage	
Final	
18 February 2016	
Yes	
29 June 2015	
Yes	
29 June 2015	
No	

# General information about the trial

Main objective of the trial:

1.To assess the safety, tolerability and Pharmacokinetic/ Pharmacodynamic (PK/PD) profile of three doses of HM10560A on an every week (EW) regime and one dose on every other week(EOW) regime administered for a period of 24 weeks initial study

2.To select the optimal dose and dosing regimen of HM10560A for the subsequent phase III study on the basis of the safety and PK/PD profile after 24 weeks of treatment

3.To assess the long term safety of HM10560A when administered in optimal dose range and dose frequency for additional 48 weeks (followed with 2 weeks safety follow up)

#### Protection of trial subjects:

The study was in compliance with the ethical principles derived from the Declaration of Helsinki and in compliance with all International Conference on Harmonization (ICH) Good Clinical Practice (GCP) Guidelines. All the local regulatory requirements pertinent to safety of trial subjects were followed.

#### Background therapy: -

Evidence for comparator: -

Actual start date of recruitment	21 November 2011
Long term follow-up planned	No
Independent data monitoring committee (IDMC) involvement?	Yes
Notes:	

## Population of trial subjects

Subjects enrolled per country		
Country: Number of subjects enrolled	Poland: 15	
Country: Number of subjects enrolled	Bulgaria: 1	
Country: Number of subjects enrolled	Hungary: 6	
Country: Number of subjects enrolled	Romania: 17	
Country: Number of subjects enrolled	Ukraine: 18	
Country: Number of subjects enrolled	Russian Federation: 3	
Country: Number of subjects enrolled	Korea, Republic of: 1	
Country: Number of subjects enrolled	Serbia: 8	
Worldwide total number of subjects	69	
EEA total number of subjects	39	

Notes:

Subjects enrolled per age group	
In utero	0

Preterm newborn - gestational age < 37 wk	0
Newborns (0-27 days)	0
Infants and toddlers (28 days-23 months)	0
Children (2-11 years)	0
Adolescents (12-17 years)	0
Adults (18-64 years)	69
From 65 to 84 years	0
85 years and over	0

# Recruitment

#### Recruitment details:

The trial took place at 16 centres in 8 countries: Poland-3 sites, Romania-3 sites, Ukraine-3 sites, Hungary-2 sites, Russia-2 sites, Bulgaria-1 site, Korea-1 site, and Serbia-1 site. The first subject was enrolled on 21 November 2011 and the last study visit occurred on 29 June 2015.

Pre-assignment		
Screening details: -		
Pre-assignment period milestones		
Number of subjects started	169 <sup>[1]</sup>	
Number of subjects completed	69	
Pre-assignment subject non-completion reasons		
Reason: Number of subjects	Screen failure: 97	
Reason: Number of subjects	Adverse event, non-fatal: 1	
Reason: Number of subjects	Consent withdrawn by subject: 2	

#### Notes:

[1] - The number of subjects reported to have started the pre-assignment period are not the same as the worldwide number enrolled in the trial. It is expected that these numbers will be the same.Justification: It is the number of subjects screened indicated as starters of the pre-assignment period and the number of subjects treated as the worldwide number of subjects, therefore the difference.

Period 1	
Period 1 title	24-week dose finding period
Is this the baseline period?	Yes
Allocation method	Randomised - controlled
Blinding used	Not blinded
Arms	
Are arms mutually exclusive?	Yes
Arm title	Cohort 1
Arm description:	
HM10560A 0.03 mg/kg EW	
Arm type	Experimental
Investigational medicinal product name	HM10560A
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Solution for injection in pre-filled syringe
Routes of administration	Subcutaneous use
Dosage and administration details:	
HM10560A 0.03 mg/kg EW. Study treatr left thigh and right or left lower abdomin was adjusted to the subject's body weigl	nent was administered as SC injections in the region of right or al wall, always alternating the injection site. Dose calculation nt at each regularly scheduled visit.
Arm title	Cohort 2

Arm description:		
HM10560A 0.03 mg/kg EW for 4 weeks then 0.06 mg/kg EW for 20 weeks		
Arm type	Experimental	

Investigational medicinal product name	HM10560A
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Solution for injection in pre-filled syringe
Routes of administration	Subcutaneous use

Dosage and administration details:

HM10560A 0.03 mg/kg EW for 4 weeks then 0.06 mg/kg EW for 20 weeks. Study treatment was administered as SC injections in the region of right or left thigh and right or left lower abdominal wall, always alternating the injection site. Dose calculation was adjusted to the subject's body weight at each regularly scheduled visit.

Arm title	Cohort 3

Arm description:

HM10560A 0.03 mg/kg EW for 4 weeks then 0.06 mg/kg EW for 4 weeks then 0.10 mg/kg EW for 16 weeks

Arm type	Experimental
Investigational medicinal product name	HM10560A
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Solution for injection in pre-filled syringe
Routes of administration	Subcutaneous use

Dosage and administration details:

HM10560A 0.03 mg/kg EW for 4 weeks then 0.06 mg/kg EW for 4 weeks then 0.10 mg/kg EW for 16 weeks. Study treatment was administered as SC injections in the region of right or left thigh and right or left lower abdominal wall, always alternating the injection site. Dose calculation was adjusted to the subject's body weight at each regularly scheduled visit.

Arm title	Cohort 4

Arm description:

HM10560A 0.04 mg/kg EOW for 4 weeks then 0.08 mg/kg EOW for 4 weeks then 0.12 mg/kg EOW for 16 weeks

Arm type	Experimental
Investigational medicinal product name	HM10560A
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Solution for injection in pre-filled syringe
Routes of administration	Subcutaneous use

Dosage and administration details:

HM10560A 0.04 mg/kg EOW for 4 weeks then 0.08 mg/kg EOW for 4 weeks then 0.12 mg/kg EOW for 16 weeks. Study treatment was administered as SC injections in the region of right or left thigh and right or left lower abdominal wall, always alternating the injection site. Dose calculation was adjusted to the subject's body weight at each regularly scheduled visit.

Arm title	Cohort 5

Arm description:

standard daily rhGH

Arm type	Active comparator
Investigational medicinal product name	Genotropin®
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Solution for injection in cartridge
Routes of administration	Subcutaneous use

Dosage and administration details:

Genotropin® was administered at a dose of 0.04 mg/kg/week (0.006 mg/kg/day), divided and administered as a daily SC dose (7X/week), at bedtime, and that dose was then adjusted on every 4 weeks with 25% increments or decrements (0.01 mg/kg/week) up to the maximal dose of 0.08 mg/kg/week, with the aim to stabilize IGF-1 levels between 0 and +2 SDS (standard deviation score).

Number of subjects in period 1	Cohort 1	Cohort 2	Cohort 3
Started	15	14	14
Completed	13	14	14
Not completed	2	0	0
Consent withdrawn by subject	1	-	-
Military actions	1	-	-

Number of subjects in period 1	Cohort 4	Cohort 5
Started	12	14
Completed	11	14
Not completed	1	0
Consent withdrawn by subject	1	-
Military actions	-	-

Period 2 title	Long-term safety: 48 weeks treatment
Is this the baseline period?	No
Allocation method	Randomised - controlled

Blinding used

lower abdominal wall, always alternating the injection site. Dose calculation was adjusted to the subject's body weight at each regularly scheduled visit.

Arm title	Cohort 2 SFU

Arm description:

0.06 mg/kg HM10560A EW initially then adjusted up to 6 times following monthly visits, according to subjects' age and gender-adjusted serum IGF-1 (as detailed for cohort 1 SFU).

Arm type	Experimental
Investigational medicinal product name	HM10560A
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Solution for injection in pre-filled syringe
Routes of administration	Subcutaneous use

Dosage and administration details:

0.06 mg/kg HM10560A EW initially then adjusted up to 6 times following monthly visits, according to subjects' age and gender-adjusted serum IGF-1 (as detailed for cohort 1 SFU).

Study treatment was administered as SC injections in the region of right or left thigh and right or left lower abdominal wall, always alternating the injection site. Dose calculation was adjusted to the subject's body weight at each regularly scheduled visit.

Arm title Cohort 3 SFU	

Arm description:

0.10 mg/kg HM10560A EW initially then adjusted up to 6 times following monthly visits, according to subjects' age and gender-adjusted serum IGF-1 (as detailed for cohort 1 SFU).

Arm type	Experimental
Investigational medicinal product name	HM10560A
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Solution for injection in pre-filled syringe
Routes of administration	Subcutaneous use

Dosage and administration details:

0.10 mg/kg HM10560A EW initially then adjusted up to 6 times following monthly visits, according to subjects' age and gender-adjusted serum IGF-1 (as detailed for cohort 1 SFU)

Study treatment was administered as SC injections in the region of right or left thigh and right or left lower abdominal wall, always alternating the injection site. Dose calculation was adjusted to the subject's body weight at each regularly scheduled visit.

	,	 	
Arm title	<u>!</u>		Cohort 4 SFU

Arm description:

0.12 mg/kg EOW initially then adjusted up to 6 times following monthly visits, according to subjects' age and gender-adjusted serum IGF-1 (as detailed for cohort 1 SFU).

Arm type	Experimental
Investigational medicinal product name	HM10560A
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Solution for injection in pre-filled syringe
Routes of administration	Subcutaneous use

Dosage and administration details:

0.12 mg/kg EOW initially then adjusted up to 6 times following monthly visits, according to subjects' age and gender-adjusted serum IGF-1 (as detailed for cohort 1 SFU).

Study treatment was administered as SC injections in the region of right or left thigh and right or left lower abdominal wall, always alternating the injection site. Dose calculation was adjusted to the subject'

Arm title	Cohort 5 SFU

#### Arm description:

Switched from Genotropin to 0.03 mg/kg HM10560A EW initially then adjusted up to 6 times following monthly visits, according to subjects' age and gender-adjusted serum IGF-1 (as detailed for cohort 1 SFU).

Arm type	Experimental
Investigational medicinal product name	HM10560A
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Solution for injection in pre-filled syringe
Routes of administration	Subcutaneous use

Dosage and administration details:

Switched from Genotropin to 0.03 mg/kg HM10560A EW initially then adjusted up to 6 times following monthly visits, according to subjects' age and gender-adjusted serum IGF-1 (as detailed for cohort 1).

Study treatment was administered as SC injections in the region of right or left thigh and right or left lower abdominal wall, always alternating the injection site. Dose calculation was adjusted to the subject's body weight at each regularly scheduled visit.

Number of subjects in period 2	Cohort 1 SFU	Cohort 2 SFU	Cohort 3 SFU
Started	13	14	14
Completed	13	12	14
Not completed	0	2	0
Personal reasons	-	1	-
Consent withdrawn by subject	-	-	-
Own reasons	-	-	-
Lost to follow-up	-	1	-
Growth of an intracranial tumor during study	-	-	-

Number of subjects in period 2	Cohort 4 SFU	Cohort 5 SFU
Started	11	14
Completed	10	12
Not completed	1	2
Personal reasons	-	-
Consent withdrawn by subject	-	1
Own reasons	1	-
Lost to follow-up	-	-
Growth of an intracranial tumor during study	-	1

Period 3	
Period 3 title	Single dose PK/PD run-in period
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Not blinded
Arms	
Are arms mutually exclusive?	Yes
Arm title	Cohort 1 PK-PD
Arm description:	
Single dose 0.04 mg/kg HM10560A (tota	al body weight)
Arm type	Experimental
Investigational medicinal product name	HM10560A
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Solution for injection in pre-filled syringe
Routes of administration	Subcutaneous use
Dosage and administration details:	·
Single dose 0.04 mg/kg HM10560A (tota the abdominal wall.	al body weight). Subjects received a single dose administered in
Arm title	Cohort 2 PK-PD
Arm description:	
Single dose 0.08 mg/kg HM10560A	
Arm type	Experimental
Investigational medicinal product name	HM10560A
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Solution for injection in pre-filled syringe
Routes of administration	Subcutaneous use
Dosage and administration details:	
Single dose 0.08 mg/kg HM10560A (tota the abdominal wall.	al body weight). Subjects received a single dose administered in
Arm title	Cohort 3 PK-PD
Arm description:	
Single dose 0.12 mg/kg HM10560A	
Arm type	Experimental
Investigational medicinal product name	HM10560A
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Solution for injection in pre-filled syringe
Routes of administration	Subcutaneous use
Dosage and administration details:	•

Single dose 0.12 mg/kg HM10560A (total body weight). Subjects received a single dose administered in the abdominal wall.

Number of subjects in period	Cohort 1 PK-PD	Cohort 2 PK-PD	Cohort 3 PK-PD
5.1			
Started	3	3	3
Completed	3	3	3

[2] - The number of subjects starting the period is not consistent with the number completing the preceding period. It is expected the number of subjects starting the subsequent period will be the same as the number completing the preceding period.

Justification: The PK-PD substudy was conducted in a subgroup of patients prior to the dose finding period.

Reporting groups			
Reporting group title	Cohort 1		
Reporting group description:			
HM10560A 0.03 mg/kg EW			
Reporting group title	Cohort 2		
Reporting group description:			
HM10560A 0.03 mg/kg EW for 4 weeks t	hen 0.06 mg/kg EW for 20 weeks		
Reporting group title	Cohort 3		
Reporting group description:			
HM10560A 0.03 mg/kg EW for 4 weeks t weeks	hen 0.06 mg/kg EW for 4 weeks then 0.10 mg/kg EW for 16		
Reporting group title	Cohort 4		
Reporting group description:			
HM10560A 0.04 mg/kg EOW for 4 weeks then 0.08 mg/kg EOW for 4 weeks then 0.12 mg/kg EOW for 16 weeks			
Reporting group title	Cohort 5		
Reporting group description:			
standard daily rhGH			

Reporting group values	Cohort 1	Cohort 2	Cohort 3
Number of subjects	15	14	14
Age categorical			
Units: Subjects			
Adults (18-64 years)	15	14	14
Age continuous			
Units: years			
arithmetic mean	38.2	38.6	36.2
standard deviation	± 12.01	± 12.73	± 9.74
Gender categorical			
Units: Subjects			
Female	5	6	6
Male	10	8	8
Race			
Units: Subjects			
Asian	0	0	0
Caucasian	15	14	14
GHD history			
Units: Subjects			
Childhood onset	7	7	7
Adult onset	8	7	7
IGF-1			
Units: µg/l			
arithmetic mean	50.5	52.5	61.9
standard deviation	± 30.35	± 28.79	± 33.43
IGF-1 SDS			
Units: SDS			
arithmetic mean	-2.84	-2.72	-2.49

standard deviation	± 1.57	± 1.275	± 1.452
IGFBP3 SDS			
Units: SDS			
arithmetic mean	-2.21	-2.36	-2.26
standard deviation	± 1.932	± 1.505	± 1.539
Body fat mass			
Units: kg			
arithmetic mean	22.591	23.243	23.188
standard deviation	± 6.0256	± 6.7088	± 4.0353
Lean body mass			
Units: ka			
arithmetic mean	43.677	41.88	41.201
standard deviation	± 8.5766	± 13.201	$\pm 10.4357$
Trunk fat mass			
Units: ka			
arithmetic mean	12 715	12 747	12 353
standard deviation	+ 3 6182	+ 3 5907	+ 2 3455
Bone mineral density	1 5.0102	± 5.5907	± 2.3435
arithmatic mean	1 096	1 097	1.004
		1.067	1.094
standard deviation	± 0.1613	± 0.1611	± 0.116
Reporting group values	Cohort 4	Cohort 5	Total
Number of subjects	12	14	69
	12	17	
Units' Subjects			
Adults (18-64 years)	12	14	69
		± 1	
	41 7	27.4	
arithmetic mean	41./	37.4	
	± 11.42	± 9.29	-
Gender categorical			
Units: Subjects			
Female	6	6	29
Male	6	8	40
Race			
Units: Subjects			
Asian	0	1	1
Caucasian	12	13	68
GHD history			
Units: Subjects			
Childhood onset	6	5	32
Adult onset	6	9	37
IGF-1			
Units: µg/l			
arithmetic mean	44.3	44.6	
standard deviation	± 27.91	± 28.73	-
IGF-1 SDS			
Units: SDS			
arithmetic mean	-2.97	-3.14	
standard deviation	± 1.58	± 1.264	-

Units: SDS arithmetic mean standard deviation $-2.69$ $\pm 1.992$ $-2.55$ $\pm 1.595$ Body fat mass Units: kg arithmetic mean standard deviation $24.335$ $\pm 8.4133$ $29.113$ $\pm 9.5614$ Lean body mass Units: kg arithmetic mean standard deviation $41.73$ $\pm 15.4269$ $44.261$ $\pm 12.5819$ Trunk fat mass Units: kg arithmetic mean standard deviation $13.827$ $\pm 44.6946$ $15.847$ $\pm 5.8307$ Difts: kg arithmetic mean arithmetic mean standard deviation $1.076$ $\pm 1.126$	IGFBP3 SDS			
arithmetic mean $-2.69$ $-2.55$ standard deviation $\pm 1.992$ $\pm 1.595$ $-$ Body fat mass $1.992$ $\pm 1.595$ $-$ Units: kg $24.335$ $29.113$ arithmetic mean $24.335$ $29.113$ standard deviation $\pm 8.4133$ $\pm 9.5614$ Lean body mass $1.073$ $44.261$ Units: kg $1.126$ $-$ arithmetic mean $41.73$ $44.261$ standard deviation $\pm 15.4269$ $\pm 12.5819$ Trunk fat mass $ -$ Units: kg $ -$ arithmetic mean $13.827$ $15.847$ standard deviation $\pm 4.6946$ $\pm 5.8307$ Bone mineral density $ -$ Units: g/cm2 $1.076$ $1.126$	Units: SDS			
standard deviation $\pm$ 1.992 $\pm$ 1.595-Body fat mass </td <td>arithmetic mean</td> <td>-2.69</td> <td>-2.55</td> <td></td>	arithmetic mean	-2.69	-2.55	
Body fat mass24.33529.113units: kg24.33529.113standard deviation± 8.4133± 9.5614Lean body mass41.7344.261Units: kg15.4269± 12.5819arithmetic mean± 15.4269± 12.5819Trunk fat mass13.82715.847units: kg± 4.6946± 5.8307arithmetic mean13.82715.847arithmetic mean11.0761.126	standard deviation	± 1.992	± 1.595	-
Units: kg arithmetic mean $24.335$ $\pm 8.4133$ $29.113$ $\pm 9.5614$ Lean body mass $\pm 8.4133$ $\pm 9.5614$ Units: kg arithmetic mean $41.73$ $\pm 15.4269$ $44.261$ $\pm 12.5819$ Trunk fat mass $\pm 15.4269$ $\pm 12.5819$ Units: kg arithmetic mean $13.827$ $\pm 4.6946$ $15.847$ $\pm 5.8307$ Bone mineral density $\pm 4.6946$ $\pm 5.8307$ Units: g/cm2 arithmetic mean $1.076$ $1.126$	Body fat mass			
arithmetic mean $24.335$ $29.113$ standard deviation $\pm 8.4133$ $\pm 9.5614$ -Lean body mass $1.076$ $1.126$ -Units: kg $41.73$ $44.261$ -arithmetic mean $41.73$ $44.261$ -standard deviation $\pm 15.4269$ $\pm 12.5819$ -Trunk fat mass $13.827$ $15.847$ -Units: kg $13.827$ $15.847$ -standard deviation $\pm 4.6946$ $\pm 5.8307$ -	Units: kg			
standard deviation $\pm$ 8.4133 $\pm$ 9.5614-Lean body mass </td <td>arithmetic mean</td> <td>24.335</td> <td>29.113</td> <td></td>	arithmetic mean	24.335	29.113	
Lean body massImage: Lean body massImage: Lean body massUnits: kg41.7344.261arithmetic mean41.7344.261standard deviation± 15.4269± 12.5819Trunk fat massImage: Lean body massImage: Lean body massUnits: kgImage: Lean body massImage: Lean body massarithmetic mean13.82715.847standard deviation± 4.6946± 5.8307Bone mineral densityImage: Lean body massImage: Lean body massUnits: g/cm2Image: Lean body massImage: Lean body massarithmetic mean1.0761.126	standard deviation	± 8.4133	± 9.5614	-
Units: kg41.7344.261arithmetic mean $\pm 15.4269$ $\pm 12.5819$ standard deviation $\pm 15.4269$ $\pm 12.5819$ Trunk fat massImage: standard deviationImage: standard deviationUnits: kgImage: standard deviation $\pm 4.6946$ $\pm 5.8307$ Bone mineral densityImage: standard deviation $\pm 1.076$ $1.126$	Lean body mass			
arithmetic mean $41.73$ $44.261$ standard deviation $\pm 15.4269$ $\pm 12.5819$ Trunk fat mass $15.4269$ $\pm 12.5819$ Units: kg $13.827$ $15.847$ arithmetic mean $13.827$ $15.847$ standard deviation $\pm 4.6946$ $\pm 5.8307$ Bone mineral density $1.076$ $1.126$	Units: kg			
standard deviation $\pm 15.4269$ $\pm 12.5819$ -Trunk fat mass	arithmetic mean	41.73	44.261	
Trunk fat massImage: Trunk fat massUnits: kgImage: Trunk fat massarithmetic mean13.827standard deviation± 4.6946± 4.6946± 5.8307Bone mineral densityUnits: g/cm2arithmetic mean1.0761.126	standard deviation	± 15.4269	± 12.5819	-
Units: kg13.82715.847arithmetic mean13.82715.847standard deviation± 4.6946± 5.8307Bone mineral density	Trunk fat mass			
arithmetic mean       13.827       15.847         standard deviation       ± 4.6946       ± 5.8307         Bone mineral density	Units: kg			
standard deviation± 4.6946± 5.8307-Bone mineral densityUnits: g/cm21.0761.126	arithmetic mean	13.827	15.847	
Bone mineral density Units: g/cm2 arithmetic mean 1.076 1.126	standard deviation	± 4.6946	± 5.8307	-
Units: g/cm2 arithmetic mean 1.076 1.126	Bone mineral density			
arithmetic mean 1.076 1.126	Units: g/cm2			
	arithmetic mean	1.076	1.126	
standard deviation $\pm 0.1523$ $\pm 0.1798$ -	standard deviation	± 0.1523	± 0.1798	-

Sub	iect	anal	lvsis	sets	
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Subject analysis set title	SAS
Subject analysis set type	Safety analysis

Subject analysis set description:

All randomized subjects who had received at least one dose of the active treatment

Subject analysis set title	FAS
Subject analysis set type	Full analysis

Subject analysis set description:

All randomized subjects who had received at least one dose of the active treatment and who provided any follow-up data for the primary target variables

Subject analysis set title	PP
Subject analysis set type	Per protocol
Cultivet eventuals as to decover in the sec	

Subject analysis set description:

Subjects with major protocol deviations in the dose-finding period were excluded.

Subject analysis set title	SAS-SFU
Subject analysis set type	Safety analysis

Subject analysis set description:

Includes all randomized patients who have completed the dose finding period and have received at least one dose of active treatment in the safety follow-up period.

Subject analysis set title	FAS-SFU
Subject analysis set type	Full analysis

Subject analysis set description:

Comprises all randomized patients who have completed the dose finding period, and who have received at least one dose of active treatment in the safety follow-up period and who provide any follow-up data for the primary target variables in the safety follow-up period.

Reporting group values	SAS	FAS	РР
Number of subjects	69	69	58

Age categorical			
Units: Subjects			
Adults (18-64 years)	69	69	58
Age continuous			
Units: years			
arithmetic mean	38.3	38.3	38.8
standard deviation	± 10.93	± 10.93	± 11.19
Gender categorical			
Units: Subjects			
Female	29	29	26
Male	40	40	32
Race			
Units: Subjects			
Asian	1	1	1
Caucasian	68	68	57
GHD history			
Units: Subjects			
Childhood onset	32	32	29
Adult onset	37	37	29
IGF-1			
Units: µg/l			
arithmetic mean	51	51	50.2
standard deviation	± 29.78	± 29.78	± 27.92
IGF-1 SDS			
Units: SDS			
arithmetic mean	-2.83	-2.83	-2.83
standard deviation	± 1.407	± 1.407	± 1.35
IGFBP3 SDS			
Units: SDS			
arithmetic mean	-2.4	-2.4	-2.42
standard deviation	± 1.675	± 1.675	± 1.658
Body fat mass			
Units: kg			
arithmetic mean	24.49	24.49	24.288
standard deviation	± 7.3842	± 7.3842	± 6.8127
Lean body mass			
Units: kg			
arithmetic mean	42.61	42.61	42.033
standard deviation	± 11.8294	± 11.8294	± 11.6529
Trunk fat mass			
Units: kg			
arithmetic mean	13.493	13.493	13.259
standard deviation	± 4.2566	± 4.2566	± 3.7528
Bone mineral density			
Units: g/cm2			
arithmetic mean	1.094	1.094	1.087
standard deviation	± 0.1525	± 0.1525	± 0.1552
Reporting group values	SAS-SFU	FAS-SFU	
Number of subjects	66	65	

Age categorical			
Units: Subjects			
Adults (18-64 years)	66	65	
Age continuous			
Units: years			
arithmetic mean	38.5	38.5	
standard deviation	± 10.99	± 11.08	
Gender categorical			
Units: Subjects			
Female	27	26	
Male	39	39	
Race			
Units: Subjects			
Asian	1	1	
Caucasian	65	64	
GHD history			
Units: Subjects			
Childhood onset	30	30	
Adult onset	36	35	
IGF-1			
Units: µg/l			
arithmetic mean			
standard deviation	±	±	
IGF-1 SDS			
Units: SDS			
arithmetic mean			
standard deviation	±	±	
IGFBP3 SDS			
Units: SDS			
arithmetic mean			
standard deviation	±	±	
Body fat mass			
Units: kg			
arithmetic mean			
standard deviation	±	±	
Lean body mass			
Units: kg			
arithmetic mean			
standard deviation	±	±	
Trunk fat mass			
Units: kg			
arithmetic mean			
standard deviation	±	±	
Bone mineral density			
Units: g/cm2			
arithmetic mean			
standard deviation	±	±	

End points reporting groups		
Reporting group title	Cohort 1	
Reporting group description:		
HM10560A 0.03 mg/kg EW		
Reporting group title	Cohort 2	
Reporting group description:		
HM10560A 0.03 mg/kg EW for 4 weeks t	hen 0.06 mg/kg EW for 20 weeks	
Reporting group title	Cohort 3	
Reporting group description:		
HM10560A 0.03 mg/kg EW for 4 weeks t weeks	hen 0.06 mg/kg EW for 4 weeks then 0.10 mg/kg EW for 16	
Reporting group title	Cohort 4	
Reporting group description:		
HM10560A 0.04 mg/kg EOW for 4 weeks 16 weeks	then 0.08 mg/kg EOW for 4 weeks then 0.12 mg/kg EOW for	
Reporting group title	Cohort 5	
Reporting group description:		
standard daily rhGH		
Reporting group title	Cohort 1 SFU	
Reporting group description:		
0.03 mg/kg HM10560A EW initially then subjects' age and gender-adjusted serun IGF-1 < -0.5 SDS dose increased 50% IGF-1 between -0.5 and +1.5 SDS dose IGF-1 > 1.5 SDS dose decreased 25% IGF-1 >2 SDS dose decreased 50%.	adjusted up to 6 times following monthly visits, according to n insulin-like growth factor- 1 (IGF-1) as follows: maintained	
Reporting group title	Cohort 2 SFU	
Reporting group description:		
0.06 mg/kg HM10560A EW initially then subjects' age and gender-adjusted serun	adjusted up to 6 times following monthly visits, according to n IGF-1 (as detailed for cohort 1 SFU).	
Reporting group title	Cohort 3 SFU	
Reporting group description:		
0.10 mg/kg HM10560A EW initially then subjects' age and gender-adjusted serun	adjusted up to 6 times following monthly visits, according to n IGF-1 (as detailed for cohort 1 SFU).	
Reporting group title	Cohort 4 SFU	
Reporting group description:		
0.12 mg/kg EOW initially then adjusted u and gender-adjusted serum IGF-1 (as de	up to 6 times following monthly visits, according to subjects' age tailed for cohort 1 SFU).	
Reporting group title	Cohort 5 SFU	
Reporting group description:		
Switched from Genotropin to 0.03 mg/kg monthly visits, according to subjects' age SFU).	HM10560A EW initially then adjusted up to 6 times following e and gender-adjusted serum IGF-1 (as detailed for cohort 1	
Reporting group title	Cohort 1 PK-PD	
Reporting group description:		
Single dose 0.04 mg/kg HM10560A (tota	l body weight)	
Reporting group title	Cohort 2 PK-PD	
Reporting group description:		
Single dose 0.08 mg/kg HM10560A		
Reporting group title	Cohort 3 PK-PD	
Reporting group description:		
Single dose 0.12 mg/kg HM10560A		

Subject analysis set title	SAS
Subject analysis set type	Safety analysis

Subject analysis set description:

All randomized subjects who had received at least one dose of the active treatment

Subject analysis set title	FAS
Subject analysis set type	Full analysis

Subject analysis set description:

All randomized subjects who had received at least one dose of the active treatment and who provided any follow-up data for the primary target variables

Subject analysis set title	PP
Subject analysis set type	Per protocol
	·

Subject analysis set description:

Subjects with major protocol deviations in the dose-finding period were excluded.

Subject analysis set title	SAS-SFU
Subject analysis set type	Safety analysis

Subject analysis set description:

Includes all randomized patients who have completed the dose finding period and have received at least one dose of active treatment in the safety follow-up period.

Subject analysis set title	FAS-SFU
Subject analysis set type	Full analysis

Subject analysis set description:

Comprises all randomized patients who have completed the dose finding period, and who have received at least one dose of active treatment in the safety follow-up period and who provide any follow-up data for the primary target variables in the safety follow-up period.

End point title	Period 1: Change in IGF-1 over time (	FAS)

End point description:

95% confidence intervals (CIs) for least-square mean (LSM) changes from baseline (coupled with standard error (SE) and degrees of freedom) at Week 24 in IGF-1 levels were calculated within a repeated mixed model analysis (MMRM) with random subject effect, class variables: cohort, gender, and GHD onset type (Childhood or Adult), and continuous covariates: baseline IGF-1 level, age at screening (in years). An unstructured covariance structure was assumed.

End point type	Primary
End point timeframe:	

Baseline to Weeks 2, 4, 8, 12, 16, 20 and 24

End point values	Cohort 1	Cohort 2	Cohort 3	Cohort 4
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	15	14	14	12
Units: µg/l				
least squares mean (standard error)				
Week 2	24.02 (± 10.31)	27.5 (± 10.234)	25.33 (± 10.31)	5.4 (± 11.105)
Week 4	23.02 (± 9.182)	24.38 (± 9.097)	11.74 (± 9.182)	7.52 (± 10.074)
Week 8	31.64 (± 8.855)	47.21 (± 8.674)	32.23 (± 8.763)	14.92 (± 9.428)
Week 12	34.52 (± 10.262)			

Week 20	39.37 (±	43.84 (±	61.1 (±	15.17 (±
	10.273)	10.011)	10.089)	11.107)
Week 24	37.25 (±	44.35 (±	75.85 (±	23.51 (±
	9.643)	9.439)	9.521)	10.416)

End point values	Cohort 5	FAS	
Subject group type	Reporting group	Subject analysis set	
Number of subjects analysed	14	0 <sup>[1]</sup>	
Units: µg/l			
least squares mean (standard error)			
Week 2	86.47 (± 10.384)	()	
Week 4	98.15 (± 9.266)	()	
Week 8	110.65 (± 8.85)	()	
Week 12	91.49 (± 10.337)	()	
Week 16	115.23 (± 9.077)	()	
Week 20	104 (± 10.165)	0	
Week 24	96.99 (± 9.602)	()	

[1] - It is not reasonable to summarize results across cohorts (except for baseline, reported separately).

# Statistical analyses

Statistical analysis title	Cohort 1 vs Cohort 5 at Week 24		
Statistical analysis description:			
Difference in IGF-1 change from baseline to Week 24 between Cohort 1 and Cohort 5			
Comparison groups	Cohort 1 v Cohort 5		
Number of subjects included in analysis	29		
Analysis specification	Pre-specified		
Analysis type	other <sup>[2]</sup>		
P-value	< 0.001		
Method	Mixed models analysis		
Parameter estimate	Mean difference (final values)		
Point estimate	-59.74		
Confidence interval			
level	95 %		
sides	2-sided		
lower limit	-86.87		
upper limit	-32.61		
Variability estimate	Standard error of the mean		
Dispersion value	13.559		
N. I			

#### Notes:

[2] - Comparison of LSMs across treatment groups (Cohort 1 vs. Cohort 5) using the same MMRM (with standard error of the mean [SEM], 95% CI and p value).

Statistical analysis title

Cohort 2 vs Cohort 5 at Week 24

Statistical analysis description:

Difference in IGF-1 change from baseline to Week 24 between Cohort 2 and Cohort 5

Comparison groups	Cohort 2 v Cohort 5	
Number of subjects included in analysis	28	
Analysis specification	Pre-specified	
Analysis type	other <sup>[3]</sup>	
P-value	< 0.001	
Method	Mixed models analysis	
Parameter estimate	Mean difference (final values)	
Point estimate	-52.64	
Confidence interval		
level	95 %	
sides	2-sided	
lower limit	-79.6	
upper limit	-25.68	
Variability estimate	Standard error of the mean	
Dispersion value	13.475	

Notes:

[3] - Comparison of LSMs across treatment groups (Cohort 2 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Statistical analysis title	Cohort 3 vs Cohort 5 at Week 24

Statistical analysis description:

Difference in IGF-1 change from baseline to Week 24 between Cohorts 3 and Cohort 5

Comparison groups	Cohort 3 v Cohort 5	
Number of subjects included in analysis	28	
Analysis specification	Pre-specified	
Analysis type	other <sup>[4]</sup>	
P-value	= 0.125	
Method	Mixed models analysis	
Parameter estimate	Mean difference (final values)	
Point estimate	-21.14	
Confidence interval		
level	95 %	
sides	2-sided	
lower limit	-48.32	
upper limit	6.04	
Variability estimate	Standard error of the mean	
Dispersion value	13.584	

Notes:

[4] - Comparison of LSMs across treatment groups (Cohort 3 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

- · · · · · · · · · · · · · · · · · · ·	
Statistical analysis title	Cohort 4 vs Cohort 5 at Week 24

Statistical analysis description:

Difference in IGF-1 change from baseline to Week 24 between Cohorts 4 and Cohort 5

Comparison groups

Cohort 4 v Cohort 5

Number of subjects included in analysis	26
Analysis specification	Pre-specified
Analysis type	other <sup>[5]</sup>
P-value	< 0.001
Method	Mixed models analysis
Parameter estimate	Mean difference (final values)
Point estimate	-73.48
Confidence interval	
level	95 %
sides	2-sided
lower limit	-101.82
upper limit	-45.13
Variability estimate	Standard error of the mean
Dispersion value	14.167

[5] - Comparison of LSMs across treatment groups (Cohort 4 vs. Cohort 5) using the same MMRM (with standard error of the mean [SEM], 95% CI and p value).

Primary: Period 1: Change in IGF-1 over time (PP)		
End point title	Period 1: Change in IGF-1 over time (PP)	

End point description:

95% CIs for LSM changes from baseline (coupled with SE and degrees of freedom) at Week 24 in IGF-1 levels were calculated within a MMRM with random subject effect, class variables: cohort, gender, and GHD onset type (Childhood or Adult), and continuous covariates: baseline IGF-1 level, age at screening (in years). An unstructured covariance structure was assumed.

End point type	Primary
End point timeframe:	

Baseline to Weeks 2, 4, 8, 12, 16, 20 and 24

End point values	Cohort 1	Cohort 2	Cohort 3	Cohort 4
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	12	14	11	8
Units: µg/l				
least squares mean (standard error)				
Week 2	24.38 (± 10.574)	27.22 (± 9.736)	12.27 (± 11.282)	2.3 (± 13.008)
Week 4	22.74 (± 9.683)	24.1 (± 8.906)	9.11 (± 10.372)	4.07 (± 11.922)
Week 8	31.37 (± 9.766)	46.94 (± 8.984)	26.67 (± 10.457)	10.17 (± 12.024)
Week 12	33.98 (± 11.139)	49.84 (± 10.261)	53.76 (± 11.859)	11.69 (± 13.697)
Week 16	37.48 (± 9.565)	44.56 (± 8.796)	53.41 (± 10.252)	15.17 (± 11.778)
Week 20	40.13 (± 9.994)	43.57 (± 9.196)	43.29 (± 10.689)	12.63 (± 12.301)
Week 24	37.97 (± 9.929)	44.07 (± 9.135)	64.2 (± 10.623)	20.59 (± 12.222)

End point values	Cohort 5	PP	
Subject group type	Reporting group	Subject analysis set	
Number of subjects analysed	13	0[6]	
Units: µg/l			
least squares mean (standard error)			
Week 2	81.91 (± 10.377)	()	
Week 4	91.6 (± 9.541)	()	
Week 8	107.65 (± 9.619)	()	
Week 12	93.05 (± 10.909)	()	
Week 16	112.68 (± 9.43)	()	
Week 20	109.74 (± 9.832)	()	
Week 24	102.29 (± 9.771)	()	 

[6] - It is not reasonable to summarize results across cohorts (except for baseline, reported separately).

# Statistical analyses

Statistical analysis title	Cohort 1 vs Cohort 5 at Week 24	
Statistical analysis description:		
Difference in IGF-1 change from baseline to Week 24 between Cohort 1 and Cohort 5		
Comparison groups	Cohort 1 v Cohort 5	
Number of subjects included in analysis	25	
Analysis specification	Pre-specified	
Analysis type	other <sup>[7]</sup>	
P-value	< 0.001	
Method Mixed models analysis		
Parameter estimate	Mean difference (final values)	
Point estimate	-64.32	
Confidence interval		
level 95 %		
sides	2-sided	
lower limit	-92.14	
upper limit	-36.49	
Variability estimate	Standard error of the mean	
Dispersion value	13.847	

Notes:

[7] - Comparison of LSMs across treatment groups (Cohort 2 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Statistical analysis title	Cohort 2 vs Cohort 5 at Week 24
Statistical analysis description:	

Difference in IGF-1 change from baseline	to Week 24 between Cohorts 2 and Cohort 5
Comparison groups	Cohort 2 v Cohort 5

Comparison groups

Number of subjects included in analysis	27
Analysis specification	Pre-specified
Analysis type	other <sup>[8]</sup>
P-value	< 0.001
Method	Mixed models analysis
Parameter estimate	Mean difference (final values)
Point estimate	-58.22
Confidence interval	
level	95 %
sides	2-sided
lower limit	-85.19
upper limit	-31.24
Variability estimate	Standard error of the mean
Dispersion value	13.424

[8] - Comparison of LSMs across treatment groups (Cohort 2vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Statistical analysis title	Cohort 3 vs Cohort 5 at Week 24
Statistical analysis description:	

Difference in IGF-1 change from baseline to Week 24 between Cohorts 3 and Cohort 5

Comparison groups	Cohort 3 v Cohort 5
Number of subjects included in analysis	24
Analysis specification	Pre-specified
Analysis type	other <sup>[9]</sup>
P-value	= 0.014
Method	Mixed models analysis
Parameter estimate	Mean difference (final values)
Point estimate	-38.09
Confidence interval	
level	95 %
sides	2-sided
lower limit	-67.96
upper limit	-8.22
Variability estimate	Standard error of the mean
Dispersion value	14.865

Notes:

[9] - Comparison of LSMs across treatment groups (Cohort 3 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Statistical analysis title	Cohort 4 vs Cohort 5 at Week 24
Statistical analysis description:	

Difference in IGF-1 change from baseline to Week 24 between Cohorts 4 and Cohort 5

Comparison groups	Cohort 4 v Cohort 5
Number of subjects included in analysis	21
Analysis specification	Pre-specified
Analysis type	other <sup>[10]</sup>
P-value	< 0.001
Method	Mixed models analysis
Parameter estimate	Mean difference (final values)
Point estimate	-81.7

Confidence interval	
level	95 %
sides	2-sided
lower limit	-113.32
upper limit	-50.08
Variability estimate	Standard error of the mean
Dispersion value	15.733

[10] - Comparison of LSMs across treatment groups (Cohort 4 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Primary: Period 2: Change in IGF-1	from Week 24 to 74 (FAS-SFU)
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End point title Period 2: Change in IGF-1 from Week 24 to 74 (FAS-SFU)

End point description:

95% CIs for LSM changes from Week 24 (coupled with SE and degrees of freedom) at Week 72 were evaluated in an analysis of covariance (ANCOVA) model with class variables: cohort, gender and GHD onset type (Childhood or Adult), and continuous covariates: change in HM10560A dose, week 24 result, age at screening (in years).

#### End point type

Primary

End point timeframe:

Weeks 24 to 72

End point values	Cohort 1 SFU	Cohort 2 SFU	Cohort 3 SFU	Cohort 4 SFU
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	13	11	13	10
Units: µg/l				
least squares mean (standard error)	9.06 (± 12.103)	9.13 (± 12.083)	14.57 (± 11.543)	-8.64 (± 14.226)

End point values	Cohort 5 SFU	FAS-SFU	
Subject group type	Reporting group	Subject analysis set	
Number of subjects analysed	9	0 <sup>[11]</sup>	
Units: µg/l			
least squares mean (standard error)	-50.92 (± 13.305)	()	

Notes:

[11] - It is not reasonable to summarize results across cohorts (except for baseline, reported separately).

## Statistical analyses

Statistical analysis title	Cohort 1 vs Cohort 5 at Week 72	
Statistical analysis description:		
Difference in IGF-1 change from Week 24 to Week 72 between Cohorts 1-4 SFU and Cohort 5 SFU		
Comparison groups	Cohort 5 SFU v Cohort 1 SFU	

Number of subjects included in analysis	22
Analysis specification	Pre-specified
Analysis type	other <sup>[12]</sup>
P-value	= 0.002
Method	ANCOVA
Parameter estimate	Mean difference (final values)
Point estimate	59.98
Confidence interval	
level	95 %
sides	2-sided
lower limit	23.37
upper limit	96.6
Variability estimate	Standard error of the mean
Dispersion value	18.238

[12] - Comparison of LSMs across treatment groups (Cohort 1-4 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

Statistical analysis title	Cohort 2 vs Cohort 5 at Week 72
Statistical analysis description:	

Difference in IGF-1 change from Week 24 to Week 72 between Cohorts 2 SFU and Cohort 5 SFU

Comparison groups	Cohort 2 SFU v Cohort 5 SFU
Number of subjects included in analysis	20
Analysis specification	Pre-specified
Analysis type	other <sup>[13]</sup>
P-value	= 0.002
Method	ANCOVA
Parameter estimate	Mean difference (final values)
Point estimate	59.98
Confidence interval	
level	95 %
sides	2-sided
lower limit	23.37
upper limit	96.6
Variability estimate	Standard error of the mean
Dispersion value	18.238

Notes:

[13] - Comparison of LSMs across treatment groups (Cohort 2 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

Statistical analysis title	Cohort 3 vs Cohort 5 at Week 72	
Statistical analysis description:		
Difference in IGF-1 change from Week 24 to Week 72 between Cohorts 3 SFU and Cohort 5 SFU		
Comparison groups	Cohort 3 SFU v Cohort 5 SFU	

Number of subjects included in analysis	22
Analysis specification	Pre-specified
Analysis type	other <sup>[14]</sup>
P-value	< 0.001
Method	ANCOVA
Parameter estimate	Mean difference (final values)
Point estimate	65.49

Confidence interval	
level	95 %
sides	2-sided
lower limit	31.69
upper limit	99.29
Variability estimate	Standard error of the mean
Dispersion value	16.835

[14] - Comparison of LSMs across treatment groups (Cohort 3 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

Statistical analysis title	Cohort 4 vs Cohort 5 at Week 72		
Statistical analysis description:			
Difference in IGF-1 change from Week 2	4 to Week 72 between Cohorts 4 SFU and Cohort 5 SFU		
Comparison groups	Cohort 4 SFU v Cohort 5 SFU		
Number of subjects included in analysis	19		
Analysis specification	Pre-specified		
Analysis type	other <sup>[15]</sup>		
P-value	= 0.044		
Method	ANCOVA		
Parameter estimate	Mean difference (final values)		
Point estimate	42.28		
Confidence interval			
level	95 %		
sides	2-sided		
lower limit	1.24		
upper limit	83.31		
Variability estimate	Standard error of the mean		
Dispersion value	20.439		

Notes:

[15] - Comparison of LSMs across treatment groups (Cohort 4 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

Primary: Period 3: Change in IGF-1 over time (FAS)

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End point title	Period 3: Change in IGF-1 over time (FAS) <sup>[16]</sup>		
End point description:			
Actual change in IGF-1 over time (observ	ved cases)		
End point type	Primary		
End point timeframe:			
O have to CZ2 have			

0 hours to 672 hours

Notes:

[16] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: This is a Phase II study of exloratory nature, therefore statistical analysis of each endpoint is not completely necessary. However, statistical analyses of the same measured variable (IGF-1) are ready in other study periods.

End point values	Cohort 1 PK-PD	Cohort 2 PK-PD	Cohort 3 PK-PD	FAS
Subject group type	Reporting group	Reporting group	Reporting group	Subject analysis set
Number of subjects analysed	3	3	3	0 <sup>[17]</sup>
Units: µ/l				
arithmetic mean (standard deviation)				
0.5-1.5 hours	-4.7 (± 6.79)	-3.6 (± 1.23)	-0.5 (± 2.16)	()

2-4 hours	-3.6 (± 4.48)	-3.1 (± 4.83)	-2.9 (± 4.54)	()
7-12 hours	4.5 (± 7.09)	12 (± 4.78)	23.5 (± 9.24)	()
16-30 hours	21.9 (± 16.21)	69.9 (± 7.71)	80.8 (± 31.12)	()
30-60 hours	34 (± 22.14)	91.2 (± 12.76)	109.7 (± 48.58)	()
72-100 hours	37.7 (± 26.8)	73.5 (± 44.77)	84.3 (± 64.37)	()
120-150 hours	25.2 (± 16.35)	61.2 (± 29.75)	53.2 (± 53.34)	()
200-250 hours	19.5 (± 5.75)	40.1 (± 19.54)	18.3 (± 25.37)	()
400-450 hours	-7 (± 11.03)	8.1 (± 12.28)	0.1 (± 9.98)	()
600-672 hours	-4.2 (± 8.85)	3.4 (± 5.49)	-4.1 (± 8.7)	()

[17] - It is not reasonable to summarize results across cohorts (except for baseline, reported separately).

#### Statistical analyses

No statistical analyses for this end point

Secondary: Period 1: Change in IGF-1 SDS (FAS)		
End point title	Period 1: Change in IGF-1 SDS (FAS)	

End point description:

95% CIs for LSM changes from baseline (coupled with SE and degrees of freedom) at Week 24 in IGF-1 SDS were calculated within a MMRM with random subject effect, class variables: cohort, gender, and GHD onset type (Childhood or Adult), and continuous covariates: baseline IGF-1 SDS, age at screening (in years). An unstructured covariance structure was assumed.

End point type	Secondary
End point timeframe:	

Baseline to Weeks 2, 4, 8, 12, 16, 20 and 24

End point values	Cohort 1	Cohort 2	Cohort 3	Cohort 4
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	15	14	14	12
Units: SDS				
least squares mean (standard error)				
Week 2	1.01 (± 0.265)	0.87 (± 0.263)	0.98 (± 0.264)	0.06 (± 0.285)
Week 4	1.02 (± 0.229)	1.01 (± 0.227)	0.61 (± 0.229)	0.13 (± 0.252)
Week 8	1.27 (± 0.244)	1.52 (± 0.238)	1.28 (± 0.24)	0.45 (± 0.259)
Week 12	1.35 (± 0.288)	1.7 (± 0.286)	1.87 (± 0.287)	0.35 (± 0.31)
Week 16	1.39 (± 0.255)	1.52 (± 0.253)	2 (± 0.254)	0.69 (± 0.275)
Week 20	1.41 (± 0.253)	1.56 (± 0.247)	2 (± 0.248)	0.46 (± 0.273)
Week 24	1.37 (± 0.241)	1.52 (± 0.235)	2.35 (± 0.237)	0.8 (± 0.259)

End point values	Cohort 5	FAS	
Subject group type	Reporting group	Subject analysis set	
Number of subjects analysed	14	0 <sup>[18]</sup>	
Units: SDS			
least squares mean (standard error)			

Week 2	2.55 (± 0.267)	()	
Week 4	2.84 (± 0.232)	()	
Week 8	3.17 (± 0.243)	()	
Week 12	2.52 (± 0.289)	()	
Week 16	3.24 (± 0.257)	()	
Week 20	3.19 (± 0.251)	()	
Week 24	2.97 (± 0.24)	()	

[18] - It is not reasonable to summarize results across cohorts (except for baseline, reported separately).

# Statistical analyses

Statistical analysis title	Cohort 1 vs Cohort 5 at Week 24
Statistical analysis description:	
Difference in IGF-1 SDS change from bas	seline to Week 24 between Cohorts 1 and Cohort 5
Comparison groups	Cohort 1 v Cohort 5
Number of subjects included in analysis	29
Analysis specification	Pre-specified
Analysis type	other <sup>[19]</sup>
P-value	< 0.001
Method	Mixed models analysis
Parameter estimate	Mean difference (final values)
Point estimate	-1.6
Confidence interval	
level	95 %
sides	2-sided
lower limit	-2.28
upper limit	-0.92
Variability estimate	Standard error of the mean
Dispersion value	0.338

Notes:

[19] - Comparison of LSMs across treatment groups (Cohort 1 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Statistical analysis title Cohort 2 vs Cohort 5 at Week 24	Statistical analysis title	Cohort 2 vs Cohort 5 at Week 24
------------------------------------------------------------	----------------------------	---------------------------------

Statistical analysis description:

Difference in IGF-1 SDS change from baseline to Week 24 between Cohorts 2 and Cohort 5

Comparison groups	Cohort 2 v Cohort 5
Number of subjects included in analysis	28
Analysis specification	Pre-specified
Analysis type	other <sup>[20]</sup>
P-value	< 0.001
Method	Mixed models analysis
Parameter estimate	Mean difference (final values)
Point estimate	-1.45
Confidence interval	
level	95 %
sides	2-sided
lower limit	-2.12
upper limit	-0.78
Variability estimate	Standard error of the mean
Dispersion value	0.336

[20] - Comparison of LSMs across treatment groups (Cohort 2 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Statistical analysis title	Cohort 3 vs Cohort 5 at Week 24
Statistical analysis description:	

Difference in IGF-1 SDS change from baseline to Week 24 between Cohorts 3 and Cohort 5

Cohort 3 v Cohort 5

# and GHD onset type (Childhood or Adult), and continuous covariates: baseline IGF-1 SDS, age at screening (in years). An unstructured covariance structure was assumed.

End point type	Secondary
End point timeframe:	
Baseline to Weeks 2, 4, 8, 12, 16, 20 and	d 24

End point values	Cohort 1	Cohort 2	Cohort 3	Cohort 4
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	15	14	14	12
Units: SDS				
least squares mean (standard error)				
Week 2	0.58 (± 0.197)	0.53 (± 0.195)	0.55 (± 0.196)	0.08 (± 0.212)
Week 4	0.55 (± 0.168)	0.45 (± 0.166)	0.26 (± 0.167)	-0.1 (± 0.185)
Week 8	0.7 (± 0.173)	0.64 (± 0.169)	0.47 (± 0.169)	0.12 (± 0.183)
Week 12	0.59 (± 0.202)	0.8 (± 0.2)	0.9 (± 0.2)	0.05 (± 0.217)
Week 16	0.53 (± 0.176)	0.7 (± 0.174)	0.99 (± 0.174)	0.36 (± 0.189)
Week 20	0.56 (± 0.178)	0.75 (± 0.172)	1 (± 0.173)	0.18 (± 0.192)
Week 24	0.8 (± 0.19)	0.63 (± 0.184)	1.09 (± 0.185)	0.4 (± 0.205)

End point values	Cohort 5	FAS	
Subject group type	Reporting group	Subject analysis set	
Number of subjects analysed	14	0 <sup>[23]</sup>	
Units: SDS			
least squares mean (standard error)			
Week 2	1.61 (± 0.197)	()	
Week 4	1.65 (± 0.169)	()	
Week 8	1.53 (± 0.171)	()	
Week 12	1.4 (± 0.202)	()	
Week 16	1.76 (± 0.176)	()	
Week 20	1.8 (± 0.175)	()	
Week 24	1.67 (± 0.186)	()	

Notes:

[23] - It is not reasonable to summarize results across cohorts (except for baseline, reported separately).

# Statistical analyses

Statistical analysis title	Cohort 1 vs Cohort 5 at Week 24	
Statistical analysis description:		
Difference in IGFBP3 SDS change from baseline to Week 24 between cohorts		
Comparison groups	Cohort 1 v Cohort 5	

Number of subjects included in analysis	29
Analysis specification	Pre-specified
Analysis type	other <sup>[24]</sup>
P-value	= 0.002
Method	Mixed models analysis
Parameter estimate	Mean difference (final values)
Point estimate	-0.87
Confidence interval	
level	95 %
sides	2-sided
lower limit	-1.41
upper limit	-0.34
Variability estimate	Standard error of the mean
Dispersion value	0.266

 $\left[24\right]$  - Comparison of LSMs across treatment groups (Cohort 1-4 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Statistical analysis title	Cohort 2 vs Cohort 5 at Week 24	
Statistical analysis description:		
Difference in IGFBP3 SDS change from b	aseline to Week 24 between cohorts	
Comparison groups	Cohort 2 v Cohort 5	
Number of subjects included in analysis	28	
Analysis specification	Pre-specified	
Analysis type	other <sup>[25]</sup>	
P-value	< 0.001	
Method	Mixed models analysis	
Parameter estimate	Mean difference (final values)	
Point estimate	-1.04	
Confidence interval		
level	95 %	
sides	2-sided	
lower limit	-1.57	
upper limit	-0.52	
Variability estimate	Standard error of the mean	
Dispersion value	0.262	

Notes:

[25] - Comparison of LSMs across treatment groups (Cohort 2 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Statistical analysis title	Cohort 3 vs Cohort 5 at Week 24
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Statistical analysis description:

# Difference in IGFBP3 SDS change from baseline to Week 24 between cohorts

Comparison groups	Cohort 3 v Cohort 5
Number of subjects included in analysis	28
Analysis specification	Pre-specified
Analysis type	other <sup>[26]</sup>
P-value	= 0.028
Method	Mixed models analysis
Parameter estimate	Mean difference (final values)
Point estimate	-0.59

Confidence interval	
level	95 %
sides	2-sided
lower limit	-1.11
upper limit	-0.06
Variability estimate	Standard error of the mean
Dispersion value	0.262

[26] - Comparison of LSMs across treatment groups (Cohort 3 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Statistical analysis title	Cohort 4 vs Cohort 5 at Week 24	
Statistical analysis description:		
Difference in IGFBP3 SDS change from baseline to Week 24 between cohorts		
Comparison groups	Cohort 4 v Cohort 5	
Number of subjects included in analysis	26	
Analysis specification	Pre-specified	
Analysis type	other <sup>[27]</sup>	
P-value	< 0.001	
Method	Mixed models analysis	
Parameter estimate	Mean difference (final values)	
Point estimate	-1.28	
Confidence interval		
level	95 %	
sides	2-sided	
lower limit	-1.83	
upper limit	-0.72	
Variability estimate	Standard error of the mean	
Dispersion value	0.277	

Notes:

[27] - Comparison of LSMs across treatment groups (Cohort 4 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Secondary: Period 1: Change in lean body mass (LBM) (FAS)

End point title	Period 1: Change in lean body mass (LBM) (FAS)

End point description:

95% CIs for LSM changes from baseline (coupled with SE and degrees of freedom) at Week 24 in LBM were calculated within a MMRM with random subject effect, class variables: cohort, gender, and GHD onset type (Childhood or Adult), and continuous covariates: baseline IGF-1 SDS, age at screening (in years). An unstructured covariance structure was assumed.

End point type	Secondary
End point timeframe:	
Baseline to Weeks 12 and 24	

End point values	Cohort 1	Cohort 2	Cohort 3	Cohort 4
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	15	14	14	12
Units: kg				
least squares mean (standard error)				

Week 12	0.575 (±	1.749 (±	0.436 (±	0.599 (±
	0.4054)	0.3868)	0.4021)	0.4192)
Week 24	1.078 (± 0.4408)	1.675 (± 0.4239)	1.286 (± 0.4405)	1.1 (± 0.4739)

End point values	Cohort 5	FAS	
Subject group type	Reporting group	Subject analysis set	
Number of subjects analysed	14	0 <sup>[28]</sup>	
Units: kg			
least squares mean (standard error)			
Week 12	1.709 (± 0.3895)	()	
Week 24	2.357 (± 0.4263)	()	

[28] - It is not reasonable to summarize results across cohorts (except for baseline, reported separately).

# Statistical analyses

Statistical analysis title	Cohort 1 vs Cohort 5 at Week 24	
Statistical analysis description:		
Difference in LBM change from baseline to Week 24 between Cohort 1 and Cohort 5		
Comparison groups	Cohort 1 v Cohort 5	
Number of subjects included in analysis	29	
Analysis specification	Pre-specified	
Analysis type	other <sup>[29]</sup>	
P-value	= 0.04	
Method	Mixed models analysis	
Parameter estimate	Mean difference (final values)	
Point estimate	-1.279	
Confidence interval		
level	95 %	
sides	2-sided	
lower limit	-2.497	
upper limit	-0.061	
Variability estimate	Standard error of the mean	
Dispersion value	0.6086	
N. I		

Notes:

[29] - Comparison of LSMs across treatment groups (Cohort 1 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Statistical analysis title	Cohort 2 vs Cohort 5 at Week 24	
Statistical analysis description:		
Difference in LBM change from baseline to Week 24 between Cohorts 2 and Cohort 5		
Comparison groups	Cohort 2 v Cohort 5	

Number of subjects included in analysis	28
Analysis specification	Pre-specified
Analysis type	other <sup>[30]</sup>
P-value	= 0.26
Method	Mixed models analysis
Parameter estimate	Mean difference (final values)
Point estimate	-0.682
Confidence interval	
level	95 %
sides	2-sided
lower limit	-1.882
upper limit	0.519
Variability estimate	Standard error of the mean
Dispersion value	0.5997

[30] - Comparison of LSMs across treatment groups (Cohort 2 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Statistical analysis title	Cohort 3 vs Cohort 5 at Week 24		
Statistical analysis description:			
Difference in LBM change from baseline	to Week 24 between Cohort 3 and Cohort 5		
Comparison groups	Cohort 3 v Cohort 5		
Number of subjects included in analysis	28		
Analysis specification	Pre-specified		
Analysis type	other <sup>[31]</sup>		
P-value	= 0.085		
Method	Mixed models analysis		
Parameter estimate	Mean difference (final values)		
Point estimate	-1.071		
Confidence interval			
level	95 %		
sides	2-sided		
lower limit	-2.293		
upper limit	0.151		
Variability estimate	Standard error of the mean		
Dispersion value	0.6106		

Notes:

[31] - Comparison of LSMs across treatment groups (Cohort 3 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Statistical analysis title	Cohort 4 vs Cohort 5 at Week 24
Statistical analysis description:	

Difference in LBM change from baseline to Week 24 between Cohort 4 and Cohort 5

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Comparison groups	Cohort 4 v Cohort 5
Number of subjects included in analysis	26
Analysis specification	Pre-specified
Analysis type	other <sup>[32]</sup>
P-value	= 0.054
Method	Mixed models analysis
Parameter estimate	Mean difference (final values)
Point estimate	-1.257

Confidence interval		
level	95 %	
sides	2-sided	
lower limit	-2.538	
upper limit	0.024	
Variability estimate	Standard error of the mean	
Dispersion value	0.6399	

[32] - Comparison of LSMs across treatment groups (Cohort 4 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

End point title	Period 1: Change in body fat mass (FM) (FAS)
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End point description:

95% CIs for LSM changes from baseline (coupled with SE and degrees of freedom) at Week 24 in FM were calculated within a MMRM with random subject effect, class variables: cohort, gender, and GHD onset type (Childhood or Adult), and continuous covariates: baseline IGF-1 SDS, age at screening (in years). An unstructured covariance structure was assumed.

End point type	Secondary
End point timeframe:	
Baseline to Weeks 12 and 24	

End point values	Cohort 1	Cohort 2	Cohort 3	Cohort 4
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	15	14	14	12
Units: kg				
least squares mean (standard error)				
Week 12	-0.713 (± 0.5672)	-0.956 (± 0.5452)	0.923 (± 0.5671)	-0.506 (± 0.5913)
Week 24	-0.468 (± 0.7144)	-1.337 (± 0.6944)	1.137 (± 0.7216)	-0.599 (± 0.7648)

End point values	Cohort 5	FAS	
Subject group type	Reporting group	Subject analysis set	
Number of subjects analysed	14	0 <sup>[33]</sup>	
Units: kg			
least squares mean (standard error)			
Week 12	-1.418 (± 0.5675)	()	
Week 24	-0.831 (± 0.712)	()	

Notes:

[33] - It is not reasonable to summarize results across cohorts (except for baseline, reported separately).

Statistical analyses

Statistical analysis title	Cohort 1 vs Cohort 5 at Week 24	
Statistical analysis description:		
Difference in FM change from baseline to Week 24 between Cohort 1 and Cohort 5		
Comparison groups	Cohort 1 v Cohort 5	
Number of subjects included in analysis	29	
Analysis specification	Pre-specified	
Analysis type	other <sup>[34]</sup>	
P-value	= 0.722	
Method	Mixed models analysis	
Parameter estimate	Mean difference (final values)	
Point estimate	0.363	
Confidence interval		
level	95 %	
sides	2-sided	
lower limit	-1.67	
upper limit	2.396	
Variability estimate	Standard error of the mean	
Dispersion value	1.0156	

[34] - Comparison of LSMs across treatment groups (Cohort 1 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Statistical analysis title	Cohort 2 vs Cohort 5 at Week 24	
Statistical analysis description:		
Difference in FM change from baseline to Week 24 between Cohort 2 and Cohort 5		
Comparison groups	Cohort 2 v Cohort 5	
Number of subjects included in analysis	28	
Analysis specification	Pre-specified	
Analysis type	other <sup>[35]</sup>	
P-value	= 0.615	
Method	Mixed models analysis	
Parameter estimate	Mean difference (final values)	
Point estimate	-0.506	
Confidence interval		
level	95 %	
sides	2-sided	
lower limit	-2.511	
upper limit	1.498	
Variability estimate	Standard error of the mean	
Dispersion value	1.0012	

Notes:

[35] - Comparison of LSMs across treatment groups (Cohort 2 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Statistical analysis title Cohort 3 vs Cohort 5 at Week 24		
Statistical analysis description:		
Difference in FM change from baseline to Week 24 between Cohort 3 and Cohort 5		
Comparison groups	Cohort 3 v Cohort 5	

Number of subjects included in analysis	28
Analysis specification	Pre-specified
Analysis type	other <sup>[36]</sup>
P-value	= 0.058
Method	Mixed models analysis
Parameter estimate	Mean difference (final values)
Point estimate	1.968
Confidence interval	
level	95 %
sides	2-sided
lower limit	-0.071
upper limit	4.007
Variability estimate	Standard error of the mean
Dispersion value	1.0187

[36] - Comparison of LSMs across treatment groups (Cohort 3 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Statistical analysis title	Cohort 4 vs Cohort 5 at Week 24
Statistical analysis description:	-
Difference in FM change from baseline to	Week 24 between Cohorts 4 and Cohort 5
Comparison groups	Cohort 4 v Cohort 5
Number of subjects included in analysis	26
Analysis specification	Pre-specified
Analysis type	other <sup>[37]</sup>
P-value	= 0.826
Method	Mixed models analysis
Parameter estimate	Mean difference (final values)
Point estimate	0.232
Confidence interval	
level	95 %
sides	2-sided
lower limit	-1.87
upper limit	2.334
Variability estimate	Standard error of the mean
Dispersion value	1.0502

Notes:

[37] - Comparison of LSMs across treatment groups (Cohort 4 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Secondary: Period 1: Relative change in body fat mass (FM) (FAS)	
End point title	Period 1: Relative change in body fat mass (FM) (FAS)
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End point description:

95% CIs for LSM % changes from baseline (coupled with SE and degrees of freedom) at Week 24 in FM were calculated within a MMRM with random subject effect, class variables: cohort, gender, and GHD onset type (Childhood or Adult), and continuous covariates: baseline IGF-1 SDS, age at screening (in years). An unstructured covariance structure was assumed.

End point type	Secondary			
End point timeframe:				
Baseline to Weeks 12 and 24				
End point values	Cohort 1	Cohort 2	Cohort 3	Cohort 4
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Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	15	14	14	12
Units: percent				
least squares mean (standard error)				
Week 12	-1.173 (± 0.61)	-1.922 (± 0.5884)	0.467 (± 0.6124)	-0.964 (± 0.6418)
Week 24	-1.164 (± 0.7327)	-2.175 (± 0.7134)	0.244 (± 0.7418)	-1.21 (± 0.7896)

End point values	Cohort 5	FAS	
Subject group type	Reporting group	Subject analysis set	
Number of subjects analysed	14	0 <sup>[38]</sup>	
Units: percent			
least squares mean (standard error)			
Week 12	-1.98 (± 0.6219)	()	
Week 24	-2.081 (± 0.7412)	()	

[38] - It is not reasonable to summarize results across cohorts (except for baseline, reported separately).

## Statistical analyses

Statistical analysis title	Cohort 1 vs Cohort 5 at Week 24

Statistical analysis description:

#### Difference in relative change in FM from baseline to Week 24 between Cohorts 1 and Cohort 5

Comparison groups	Cohort 1 v Cohort 5
Number of subjects included in analysis	29
Analysis specification	Pre-specified
Analysis type	other <sup>[39]</sup>
P-value	= 0.383 <sup>[40]</sup>
Method	Mixed models analysis
Parameter estimate	Mean difference (final values)
Point estimate	0.917
Confidence interval	
level	95 %
sides	2-sided
lower limit	-1.169
upper limit	3.002
Variability estimate	Standard error of the mean
Dispersion value	1.0418

Notes:

[39] - Comparison of LSMs across treatment groups (Cohort 1 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

[40] - Comparison of LSMs across treatment groups (Cohort 1 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Statistical analysis title	Cohort 2 vs Cohort 5 at Week 24	
Statistical analysis description:		
Difference in relative change in FM from baseline to Week 24 between Cohorts 2 and Cohort 5		
Comparison groups	Cohort 2 v Cohort 5	
Number of subjects included in analysis	28	
Analysis specification	Pre-specified	
Analysis type	other <sup>[41]</sup>	
P-value	= 0.927	
Method	Mixed models analysis	
Parameter estimate	Mean difference (final values)	
Point estimate	-0.095	
Confidence interval		
level	95 %	
sides	2-sided	
lower limit	-2.152	
upper limit	1.963	
Variability estimate	Standard error of the mean	
Dispersion value	1.0277	

#### Notes:

[41] - Comparison of LSMs across treatment groups (Cohort 2 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Statistical analysis title	Cohort 3 vs Cohort 5 at Week 24
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Statistical analysis description:

Difference in relative change in FM from baseline to Week 24 between Cohorts 3 and Cohort 5

Comparison groups	Cohort 3 v Cohort 5
Number of subjects included in analysis	28
Analysis specification	Pre-specified
Analysis type	other <sup>[42]</sup>
P-value	= 0.03
Method	Mixed models analysis
Parameter estimate	Mean difference (final values)
Point estimate	2.325
Confidence interval	
level	95 %
sides	2-sided
lower limit	0.233
upper limit	4.416
Variability estimate	Standard error of the mean
Dispersion value	1.0449

Notes:

[42] - Comparison of LSMs across treatment groups (Cohort 3 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Statistical analysis title	Cohort 4 vs Cohort 5 at Week 24	
Statistical analysis description:		
Difference in relative change in FM from baseline to Week 24 between Cohort 4 and Cohort 5		
Comparison groups	Cohort 4 v Cohort 5	

Number of subjects included in analysis	26
Analysis specification	Pre-specified
Analysis type	other <sup>[43]</sup>
P-value	= 0.425
Method	Mixed models analysis
Parameter estimate	Mean difference (final values)
Point estimate	0.87
Confidence interval	
level	95 %
sides	2-sided
lower limit	-1.296
upper limit	3.036

[44] - It is not reasonable to summarize results across cohorts (except for baseline, reported separately).

## Statistical analyses

Statistical analysis title	Cohort 1 vs Cohort 5 at Week 24	
Statistical analysis description:		
Difference in trunk fat change from baseline to Week 24 between Cohort 1 and Cohort 5		
Comparison groups	Cohort 1 v Cohort 5	
Number of subjects included in analysis	29	
Analysis specification	Pre-specified	
Analysis type	other	
P-value	= 0.735	
Method	Mixed models analysis	
Parameter estimate	Mean difference (final values)	
Point estimate	0.209	
Confidence interval		
level	95 %	
sides	2-sided	
lower limit	-1.022	
upper limit	1.441	
Variability estimate	Standard error of the mean	
Dispersion value	0.6151	

Statistical analysis title	Cohort 2 vs Cohort 5 at Week 24	
Statistical analysis description:		
Difference in trunk fat change from base	line to Week 24 between Cohorts 2 and Cohort 5	
Comparison groups	Cohort 2 v Cohort 5	
Number of subjects included in analysis	28	
Analysis specification	Pre-specified	
Analysis type	other <sup>[45]</sup>	
P-value	= 0.543	
Method	Mixed models analysis	
Parameter estimate	Mean difference (final values)	
Point estimate	-0.373	
Confidence interval		
level	95 %	
sides	2-sided	
lower limit	-1.594	
upper limit	0.847	
Variability estimate	Standard error of the mean	
Dispersion value	0.6096	

Notes:

[45] - Comparison of LSMs across treatment groups (Cohort 2 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Statistical analysis title	Cohort 3 vs Cohort 5 at Week 24	
Statistical analysis description:		
Difference in trunk fat change from baseline to Week 24 between Cohort 3 and Cohort 5		
Comparison groups	Cohort 3 v Cohort 5	
Number of subjects included in analysis	28	
Analysis specification	Pre-specified	
Analysis type	other	
P-value	= 0.147	
Method	Mixed models analysis	
Parameter estimate	Mean difference (final values)	
Point estimate	0.915	
Confidence interval		
level	95 %	
sides	2-sided	
lower limit	-0.332	
upper limit	2.162	
Variability estimate	Standard error of the mean	
Dispersion value	0.6229	

Statistical analysis title	Cohort 4 vs Cohort 5 at Week 24	
Statistical analysis description:		
Difference in trunk fat change from baseline to Week 24 between Cohorts 4 and Cohort 5		
Comparison groups	Cohort 4 v Cohort 5	
Number of subjects included in analysis	26	
Analysis specification	Pre-specified	
Analysis type	other <sup>[46]</sup>	
P-value	= 0.959	
Method	Mixed models analysis	
Parameter estimate	Mean difference (final values)	
Point estimate	0.033	
Confidence interval		
level	95 %	
sides	2-sided	
lower limit	-1.244	
upper limit	1.31	
Variability estimate	Standard error of the mean	
Dispersion value	0.6381	

[46] - Comparison of LSMs across treatment groups (Cohort 4 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Secondary: Period 1: Relative change in trunk fat (FAS)		
End point title Period 1: Relative change in trunk fat (FAS)		
End point description:		

95% CIs for LSM % changes from baseline (coupled with SE and degrees of freedom) at Week 24 in trunk fat were calculated within a MMRM with random subject effect, class variables: cohort, gender, and GHD onset type (Childhood or Adult), and continuous covariates: baseline IGF-1 SDS, age at screening (in years). An unstructured covariance structure was assumed.

End point type

Secondary

End point values	Cohort 1	Cohort 2	Cohort 3	Cohort 4
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	15	14	14	12
Units: percent				
least squares mean (standard error)				
Week 12	-2.012 (± 0.7492)	-2.516 (± 0.7226)	-0.124 (± 0.7532)	-1.463 (± 0.7904)
Week 24	-1.799 (± 0.8373)	-3.184 (± 0.8135)	-0.574 (± 0.8472)	-1.932 (± 0.9063)

End point values	Cohort 5	FAS	
Subject group type	Reporting group	Subject analysis set	
Number of subjects analysed	14	0 <sup>[47]</sup>	
Units: percent			
least squares mean (standard error)			
Week 12	-2.94 (± 0.754)	()	
Week 24	-2.847 (± 0.8416)	()	

[47] - It is not reasonable to summarize results across cohorts (except for baseline, reported separately).

# Statistical analyses

Statistical analysis title	Cohort 1 vs Cohort 5 at Week 24	
Statistical analysis description:		
Difference in relative change from baseline to Week 24 between Cohorts 1 and Cohort 5		
Comparison groups	Cohort 1 v Cohort 5	
Number of subjects included in analysis	29	
Analysis specification	Pre-specified	
Analysis type	other	
P-value	= 0.379	
Method	Mixed models analysis	
Parameter estimate	Mean difference (final values)	
Point estimate	1.048	
Confidence interval		
level	95 %	
sides	2-sided	
lower limit	-1.317	
upper limit	3.413	
Variability estimate	Standard error of the mean	
Dispersion value	1.1816	

Cohort 2 vs Cohort 5 at Week 24

Statistical analysis description:

Comparison groups	Cohort 2 v Cohort 5
Number of subjects included in analysis	28
Analysis specification	Pre-specified
Analysis type	other <sup>[48]</sup>
P-value	= 0.775
Method	Mixed models analysis
Parameter estimate	Mean difference (final values)
Point estimate	-0.337
Confidence interval	
level	95 %
sides	2-sided
lower limit	-2.68
upper limit	2.007
Variability estimate	Standard error of the mean
Dispersion value	1.1708

#### Notes:

[48] - Comparison of LSMs across treatment groups (Cohort 2 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Statistical analysis title	Cohort 3 vs Cohort 5 at Week 24
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Statistical analysis description:

Difference in relative change from baseline to Week 24 between Cohorts 3 and Cohort 5

Comparison groups	Cohort 3 v Cohort 5
Number of subjects included in analysis	28
Analysis specification	Pre-specified
Analysis type	other
P-value	= 0.063
Method	Mixed models analysis
Parameter estimate	Mean difference (final values)
Point estimate	2.273
Confidence interval	
level	95 %
sides	2-sided
lower limit	-0.124
upper limit	4.671
Variability estimate	Standard error of the mean
Dispersion value	1.1979

Statistical analysis title	Cohort 4 vs Cohort 5 at Week 24	
Statistical analysis description:		
Difference in relative change from baseline to Week 24 between Cohort 4 and Cohort 5		
Comparison groups	Cohort 4 v Cohort 5	

Number of subjects included in analysis	26
Analysis specification	Pre-specified
Analysis type	other <sup>[49]</sup>
P-value	= 0.46
Method	Mixed models analysis
Parameter estimate	Mean difference (final values)
Point estimate	0.916
Confidence interval	
level	95 %
sides	2-sided
lower limit	-1.548
upper limit	3.379
Variability estimate	Standard error of the mean
Dispersion value	1.2307

[49] - Comparison of LSMs across treatment groups (Cohort 4 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

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End point title	Period 1: Change in bone mineral density (BMD) (FAS)

#### End point description:

95% CIs for LSM changes from baseline (coupled with SE and degrees of freedom) at Week 24 in BMD were calculated within a MMRM with random subject effect, class variables: cohort, gender, and GHD onset type (Childhood or Adult), and continuous covariates: baseline IGF-1 SDS, age at screening (in years). An unstructured covariance structure was assumed.

End point type	Secondary
End point timeframe:	
Baseline to Weeks 12 and 24	

End point values	Cohort 1	Cohort 2	Cohort 3	Cohort 4
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	15	14	14	12
Units: kg				
least squares mean (standard error)				
Week 12	-0.003 (± 0.006)	0.004 (± 0.0058)	-0.006 (± 0.006)	0.013 (± 0.0063)
Week 24	0 (± 0.0053)	-0.005 (± 0.005)	-0.002 (± 0.0052)	0.002 (± 0.0057)

End point values	Cohort 5	FAS	
Subject group type	Reporting group	Subject analysis set	
Number of subjects analysed	14	<b>0</b> <sup>[50]</sup>	
Units: kg			
least squares mean (standard error)			
Week 12	-0.006 (± 0.0058)	()	
Week 24	-0.01 (± 0.0051)	()	

[50] - It is not reasonable to summarize results across cohorts (except for baseline, reported separately).

## Statistical analyses

Cohort 1 vs Cohort 5 at Week 24				
Statistical analysis description:				
to Week 24 between Cohorts 1 and Cohort 5				
Cohort 1 v Cohort 5				
29				
Pre-specified				
other <sup>[51]</sup>				
= 0.187				
Mixed models analysis				
Mean difference (final values)				
0.01				
95 %				
2-sided				
-0.005				
0.024				
Standard error of the mean				
0.0073				

Notes:

[51] - Comparison of LSMs across treatment groups (Cohort 1 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Statistical analysis title	Cohort 2 vs Cohort 5 at Week 24		
Statistical analysis description:			
Difference in BMD change from baseline	to Week 24 between Cohorts 2 and Cohort 5		
Comparison groups	Cohort 2 v Cohort 5		
Number of subjects included in analysis	28		
Analysis specification	Pre-specified		
Analysis type	other <sup>[52]</sup>		
D	0.531		

P-value	= 0.521
Method	Mixed models analysis
Parameter estimate	Mean difference (final values)
Point estimate	0.005
Confidence interval	
level	95 %
sides	2-sided
lower limit	-0.01
upper limit	0.019
Variability estimate	Standard error of the mean
Dispersion value	0.0071

Notes:

[52] - Comparison of LSMs across treatment groups (Cohort 2 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Statistical analysis title	Cohort 3 vs Cohort 5 at Week 24			
Statistical analysis description:				
Difference in BMD change from baseline to Week 24 between Cohort 3 and Cohort 5				
Comparison groups	Cohort 3 v Cohort 5			
Number of subjects included in analysis	28			
Analysis specification	Pre-specified			
Analysis type	other <sup>[53]</sup>			
P-value	= 0.275			
Method	Mixed models analysis			
Parameter estimate	Mean difference (final values)			
Point estimate	0.008			
Confidence interval				
level	95 %			
sides	2-sided			
lower limit	-0.007			
upper limit	0.023			
Variability estimate	Standard error of the mean			
Dispersion value	0.0073			

[53] - Comparison of LSMs across treatment groups (Cohort 3 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Statistical analysis title	Cohort 4 vs Cohort 5 at Week 24
Statistical analysis description:	
Difference in BMD change from baseline	to Week 24 between Cohorts 4 and Cohort 5
Comparison groups	Cohort 4 v Cohort 5
Number of subjects included in analysis	26
Analysis specification	Pre-specified
Analysis type	other <sup>[54]</sup>
P-value	= 0.152
Method	Mixed models analysis
Parameter estimate	Mean difference (final values)
Point estimate	0.011
Confidence interval	
level	95 %
sides	2-sided
lower limit	-0.004
upper limit	0.026
Variability estimate	Standard error of the mean
Dispersion value	0.0077

Notes:

[54] - Comparison of LSMs across treatment groups (Cohort 4 vs. Cohort 5) using the same MMRM (with SEM, 95% CI and p value).

Secondary: Period 2: Change in I	GF-1 SDS from Week 24 to 72 (FAS-SFU)
End point title	Period 2: Change in IGF-1 SDS from Week 24 to 72 (FAS-SFU)

End point description:

95% CIs for LSM changes from Week 24 (coupled with SE and degrees of freedom) at Week 72 were evaluated in an ANCOVA model with class variables: cohort, gender and GHD onset type (Childhood or Adult), and continuous covariates: change in HM10560A dose, week 24 result, age at screening (in years).

End point type

Secondary

End point values	Cohort 1 SFU	Cohort 2 SFU	Cohort 3 SFU	Cohort 4 SFU
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	13	11	13	10
Units: SDS				
least squares mean (standard error)	0.36 (± 0.301)	0.22 (± 0.301)	0.58 (± 0.286)	-0.09 (± 0.358)

End point values	Cohort 5 SFU	FAS-SFU	
Subject group type	Reporting group	Subject analysis set	
Number of subjects analysed	9	<b>0</b> <sup>[55]</sup>	
Units: SDS			
least squares mean (standard error)	-1.3 (± 0.33)	()	

[55] - It is not reasonable to summarize results across cohorts (except for baseline, reported separately).

#### Statistical analyses

Statistical analysis title	Cohort 1 vs Cohort 5 at Week 72
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Statistical analysis description:

Difference in IGF-1 SDS change from Week 24 to 72 between Cohorts 1 SFU and Cohort 5 SFU

Comparison groups	Cohort 1 SFU v Cohort 5 SFU
Number of subjects included in analysis	22
Analysis specification	Pre-specified
Analysis type	other <sup>[56]</sup>
P-value	< 0.001
Method	ANCOVA
Parameter estimate	Mean difference (final values)
Point estimate	1.66
Confidence interval	
level	95 %
sides	2-sided
lower limit	0.75
upper limit	2.56
Variability estimate	Standard error of the mean
Dispersion value	0.45

Notes:

[56] - Comparison of LSMs across treatment groups (Cohort 1 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

Statistical analysis title	Cohort 2 vs Cohort 5 at Week 72	
Statistical analysis description:		
Difference in IGF-1 SDS change from Week 24 to 72 between Cohorts 2 SFU and Cohort 5 SFU		
Comparison groups	Cohort 2 SFU v Cohort 5 SFU	

Number of subjects included in analysis	20
Analysis specification	Pre-specified
Analysis type	other <sup>[57]</sup>
P-value	= 0.001
Method	ANCOVA
Parameter estimate	Mean difference (final values)
Point estimate	1.52
Confidence interval	
level	95 %
sides	2-sided
lower limit	0.62
upper limit	2.41
Variability estimate	Standard error of the mean
Dispersion value	0.446

[57] - Comparison of LSMs across treatment groups (Cohort 2 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

	Statistical analysis title C	Cohort 3 vs Cohort 5 at Week 72
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Statistical analysis description:

Difference in IGF-1 SDS change from Week 24 to 72 between Cohorts 3 SFU and Cohort 5 SFU

Comparison groups	Cohort 3 SFU v Cohort 5 SFU
Number of subjects included in analysis	22
Analysis specification	Pre-specified
Analysis type	other <sup>[58]</sup>
P-value	< 0.001
Method	ANCOVA
Parameter estimate	Mean difference (final values)
Point estimate	1.88
Confidence interval	
level	95 %
sides	2-sided
lower limit	1.03
upper limit	2.72
Variability estimate	Standard error of the mean
Dispersion value	0.421

Notes:

[58] - Comparison of LSMs across treatment groups (Cohort 3 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

Statistical analysis title	Cohort 4 vs Cohort 5 at Week 72	
Statistical analysis description:		
Difference in IGF-1 SDS change from Week 24 to 72 between Cohorts 4 SFU and Cohort 5 SFU		

Cohort 4 SFU v Cohort 5 SFU
19
Pre-specified
other <sup>[59]</sup>
= 0.022
ANCOVA
Mean difference (final values)
1.21

Confidence interval	
level	95 %
sides	2-sided
lower limit	0.18
upper limit	2.23
Variability estimate	Standard error of the mean
Dispersion value	0.511

[59] - Comparison of LSMs across treatment groups (Cohort 4 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

Secondary: Period 2: Change in I	GFBP3 SDS from Week 24 to 72 (FAS-SFU)
End point title	Period 2: Change in IGFBP3 SDS from Week 24 to 72 (FAS- SEU)

End point description:

95% CIs for LSM changes from Week 24 (coupled with SE and degrees of freedom) at Week 72 were evaluated in an ANCOVA model with class variables: cohort, gender and GHD onset type (Childhood or Adult), and continuous covariates: change in HM10560A dose, week 24 result, age at screening (in years).

End point type	Secondary
End point timeframe:	
Weeks 24 to 72	

End point values	Cohort 1 SFU	Cohort 2 SFU	Cohort 3 SFU	Cohort 4 SFU
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	13	11	13	10
Units: SDS				
least squares mean (standard error)	0.32 (± 0.23)	0.31 (± 0.236)	0.83 (± 0.22)	0.04 (± 0.272)

End point values	Cohort 5 SFU	FAS-SFU	
Subject group type	Reporting group	Subject analysis set	
Number of subjects analysed	9	<b>0</b> <sup>[60]</sup>	
Units: SDS			
least squares mean (standard error)	-0.44 (± 0.255)	()	

Notes:

[60] - It is not reasonable to summarize results across cohorts (except for baseline, reported separately).

#### Statistical analyses

Statistical analysis title	Cohort 1 vs Cohort 5 at Week 72		
Statistical analysis description:			
Difference in IGFBP3 SDS change from Week 24 to 72 between Cohorts 1 SFU and Cohort 5 SFU			
Comparison groups	Cohort 1 SFU v Cohort 5 SFU		

Number of subjects included in analysis	22
Analysis specification	Pre-specified
Analysis type	other <sup>[61]</sup>
P-value	= 0.028
Method	ANCOVA
Parameter estimate	Mean difference (final values)
Point estimate	0.76

lower limit	0.09
upper limit	1.44

Confidence interval	
level	95 %
sides	2-sided
lower limit	0.61
upper limit	1.94
Variability estimate	Standard error of the mean
Dispersion value	0.332

[63] - Comparison of LSMs across treatment groups (Cohort 3 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

Statistical analysis title	Cohort 4 vs Cohort 5 at Week 72	
Statistical analysis description:		
Difference in IGFBP3 SDS change from V	Veek 24 to 72 between Cohorts 4 SFU and Cohort 5 SFU	
Comparison groups	Cohort 4 SFU v Cohort 5 SFU	
Number of subjects included in analysis	19	
Analysis specification	Pre-specified	
Analysis type	other <sup>[64]</sup>	
P-value	= 0.215	
Method	ANCOVA	
Parameter estimate	Mean difference (final values)	
Point estimate	0.48	
Confidence interval		
level	95 %	
sides	2-sided	
lower limit	-0.29	
upper limit	1.25	
Variability estimate	Standard error of the mean	
Dispersion value	0.384	

Notes:

[64] - Comparison of LSMs across treatment groups (Cohort 4 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

Secondary: Period 2: Change in lean body mass (LBM) from Week 24 to 72 (FAS-SFU)

End point title	Period 2: Change in lean body mass (LBM) from Week 24 to 72
	(FAS-SFU)

End point description:

95% CIs for LSM changes from Week 24 (coupled with SE and degrees of freedom) at Week 72 were evaluated in an ANCOVA model with class variables: cohort, gender and GHD onset type (Childhood or Adult), and continuous covariates: change in HM10560A dose, week 24 result, age at screening (in years).

End point type	Secondary
End point timeframe:	

Weeks 24 to 72

End point values	Cohort 1 SFU	Cohort 2 SFU	Cohort 3 SFU	Cohort 4 SFU
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	13	11	13	10
Units: kg				
least squares mean (standard error)	0.26 (± 0.612)	0.18 (± 0.608)	0.92 (± 0.58)	0.75 (± 0.682)

End point values	Cohort 5 SFU	FAS-SFU	
Subject group type	Reporting group	Subject analysis set	
Number of subjects analysed	9	<b>0</b> <sup>[65]</sup>	
Units: kg			
least squares mean (standard error)	0.31 (± 0.617)	()	

[65] - It is not reasonable to summarize results across cohorts (except for baseline, reported separately).

# Statistical analyses

Statistical analysis title	Cohort 1 vs Cohort 5 at Week 72	
Statistical analysis description:		
Difference in LBM change from Week 24	to 72 between Cohort 1 SFU and Cohort 5 SFU	
Comparison groups	Cohort 1 SFU v Cohort 5 SFU	
Number of subjects included in analysis	22	
Analysis specification	Pre-specified	
Analysis type	other <sup>[66]</sup>	
P-value	= 0.951	
Method	ANCOVA	
Parameter estimate	Mean difference (final values)	
Point estimate	-0.05	
Confidence interval		
level	95 %	
sides	2-sided	
lower limit	-1.75	
upper limit	1.64	
Variability estimate	Standard error of the mean	
Dispersion value	0.845	

Notes:

[66] - Comparison of LSMs across treatment groups (Cohort 1 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

Statistical analysis title	Cohort 2 vs Cohort 5 at Week 72	
Statistical analysis description:		
Difference in LBM change from Week 24 to 72 between Cohorts 1-4 SFU and Cohort 5 SFU		
Comparison groups	Cohort 2 SFU v Cohort 5 SFU	

Number of subjects included in analysis	20
Analysis specification	Pre-specified
Analysis type	other <sup>[67]</sup>
P-value	= 0.872
Method	ANCOVA
Parameter estimate	Mean difference (final values)
Point estimate	-0.14
Confidence interval	
level	95 %
sides	2-sided
lower limit	-1.86
upper limit	1.58
Variability estimate	Standard error of the mean
Dispersion value	0.856

[67] - Comparison of LSMs across treatment groups (Cohort 2 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

Statistical analysis title	Cohort 3 vs Cohort 5 at Week 72	
Statistical analysis description:		
Difference in LBM change from Week 24 to 72 between Cohorts 1-4 SFU and Cohort 5 SFU		
Comparison groups	Cohort 3 SFU v Cohort 5 SFU	
Number of subjects included in analysis	22	
Analysis specification	Pre-specified	
Analysis type	other <sup>[68]</sup>	
P-value	= 0.465	
Method	ANCOVA	
Parameter estimate	Mean difference (final values)	
Point estimate	0.61	
Confidence interval		
level	95 %	
sides	2-sided	
lower limit	-1.05	
upper limit	2.27	
Variability estimate	Standard error of the mean	
Dispersion value	0.829	

Notes:

[68] - Comparison of LSMs across treatment groups (Cohort 1-4 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

Statistical analysis title	Cohort 4 vs Cohort 5 at Week 72		
Statistical analysis description:			
Difference in LBM change from Week 24 to 72 between Cohort 4 SFU and Cohort 5 SFU			
Comparison groups	Cohort 4 SFU v Cohort 5 SFU		
Number of subjects included in analysis	19		
Analysis specification	Pre-specified		
Analysis type	other <sup>[69]</sup>		
P-value	= 0.644		
Method	ANCOVA		
Parameter estimate	Mean difference (final values)		
Point estimate	0.43		

Confidence interval	
level	95 %
sides	2-sided
lower limit	-1.44
upper limit	2.3
Variability estimate	Standard error of the mean
Dispersion value	0.932

[69] - Comparison of LSMs across treatment groups (Cohort 4 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

(FAS-SFU)

Secondary: Period 2: Change in b	ody fat mass (FM) from Week 24 to 72 (FAS-SFU)
End point title	Period 2: Change in body fat mass (FM) from Week 24 to 72

End point title

End point description:

95% CIs for LSM changes from Week 24 (coupled with SE and degrees of freedom) at Week 72 were evaluated in an ANCOVA model with class variables: cohort, gender and GHD onset type (Childhood or Adult), and continuous covariates: change in HM10560A dose, week 24 result, age at screening (in years).

End point type	Secondary
End point timeframe:	
Weeks 24 to 72	

End point values	Cohort 1 SFU	Cohort 2 SFU	Cohort 3 SFU	Cohort 4 SFU
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	13	11	13	10
Units: kg				
least squares mean (standard error)	0.88 (± 0.863)	-1.32 (± 0.885)	-0.47 (± 0.815)	0.46 (± 0.986)

End point values	Cohort 5 SFU	FAS-SFU	
Subject group type	Reporting group	Subject analysis set	
Number of subjects analysed	9	0 <sup>[70]</sup>	
Units: kg			
least squares mean (standard error)	0.94 (± 0.901)	()	

Notes:

[70] - It is not reasonable to summarize results across cohorts (except for baseline, reported separately).

#### Statistical analyses

Statistical analysis title	Cohort 1 vs Cohort 5 at Week 72	
Statistical analysis description:		
Difference in body FM change from Week 24 to 72 between Cohorts 1 SFU and Cohort 5 SFU		
Comparison groups	Cohort 1 SFU v Cohort 5 SFU	

Number of subjects included in analysis	22
Analysis specification	Pre-specified
Analysis type	other <sup>[71]</sup>
P-value	= 0.965
Method	ANCOVA
Parameter estimate	Mean difference (final values)
Point estimate	-0.05
Confidence interval	
level	95 %
sides	2-sided
lower limit	-2.55
upper limit	2.45
Variability estimate	Standard error of the mean
Dispersion value	1.246

[71] - Comparison of LSMs across treatment groups (Cohort 1 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

Statistical analysis title	Cohort 2 vs Cohort 5 at Week 72
Statistical analysis description:	

Difference in body FM change from Week 24 to 72 between Cohorts 2 SFU and Cohort 5 SFU

Comparison groups	Cohort 2 SFU v Cohort 5 SFU
Number of subjects included in analysis	20
Analysis specification	Pre-specified
Analysis type	other <sup>[72]</sup>
P-value	= 0.081
Method	ANCOVA
Parameter estimate	Mean difference (final values)
Point estimate	-2.26
Confidence interval	
level	95 %
sides	2-sided
lower limit	-4.8
upper limit	0.29
Variability estimate	Standard error of the mean
Dispersion value	1.269

Notes:

[72] - Comparison of LSMs across treatment groups (Cohort 2 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

Statistical analysis title	Cohort 3 vs Cohort 5 at Week 72	
Statistical analysis description:		
Difference in body FM change from Week 24 to 72 between Cohort 3 SFU and Cohort 5 SFU		
Comparison groups	Cohort 3 SFU v Cohort 5 SFU	
Number of subjects included in analysis	22	
Analysis specification	Pre-specified	
Analysis type	other <sup>[73]</sup>	
P-value	= 0.246	
Method	ANCOVA	
Parameter estimate	Mean difference (final values)	
Point estimate	-1.41	
	•	

Confidence interval	
level	95 %
sides	2-sided
lower limit	-3.81
upper limit	1
Variability estimate	Standard error of the mean
Dispersion value	1.199

[73] - Comparison of LSMs across treatment groups (Cohort 1-4 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

Statistical analysis title	Cohort 4 vs Cohort 5 at Week 72	
Statistical analysis description:		
Difference in body FM change from Week 24 to 72 between Cohorts 4 SFU and Cohort 5 SFU		
Comparison groups	Cohort 4 SFU v Cohort 5 SFU	
Number of subjects included in analysis	19	
Analysis specification	Pre-specified	
Analysis type	other <sup>[74]</sup>	
P-value	= 0.728	
Method	ANCOVA	
Parameter estimate	Mean difference (final values)	
Point estimate	-0.47	
Confidence interval		
level	95 %	
sides	2-sided	
lower limit	-3.17	
upper limit	2.23	
Variability estimate	Standard error of the mean	
Dispersion value	1.346	

#### Notes:

[74] - Comparison of LSMs across treatment groups (Cohort 4 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

Secondary: Period 2: Relative change in body fat mass (FM) from Week 24 to 72 (FAS-SFU)

End point title	Period 2: Relative change in body fat mass (FM) from Week 24
	to 72 (FAS-SFU)

End point description:

95% CIs for LSM % changes from Week 24 (coupled with SE and degrees of freedom) at Week 72 were evaluated in an ANCOVA model with class variables: cohort, gender and GHD onset type (Childhood or Adult), and continuous covariates: change in HM10560A dose, week 24 result, age at screening (in years).

End point type	Secondary
End point timeframe:	

Weeks 24 to 72

End point values	Cohort 1 SFU	Cohort 2 SFU	Cohort 3 SFU	Cohort 4 SFU
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	13	11	13	10
Units: percent				
least squares mean (standard error)	0.75 (± 0.9)	-1.54 (± 0.929)	-0.85 (± 0.883)	0.09 (± 1.043)

End point values	Cohort 5 SFU	FAS-SFU	
Subject group type	Reporting group	Subject analysis set	
Number of subjects analysed	9	0 <sup>[75]</sup>	
Units: percent			
least squares mean (standard error)	0.86 (± 0.959)	()	

[75] - It is not reasonable to summarize results across cohorts (except for baseline, reported separately).

# Statistical analyses

Statistical analysis title	Cohort 1 vs Cohort 5 at Week 72		
Statistical analysis description:			
Difference in FM relative change from Week 24 to 72 between Cohort 1 SFU and Cohort 5 SFU			
Comparison groups	Cohort 1 SFU v Cohort 5 SFU		
Number of subjects included in analysis	22		
Analysis specification	Pre-specified		
Analysis type	other <sup>[76]</sup>		
P-value	= 0.93		
Method	ANCOVA		
Parameter estimate	Mean difference (final values)		
Point estimate	-0.11		
Confidence interval			
level	95 %		
sides	2-sided		
lower limit	-2.71		
upper limit	2.48		
Variability estimate	Standard error of the mean		
Dispersion value	1.292		

Notes:

[76] - Comparison of LSMs across treatment groups (Cohort 1 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

Statistical analysis title	Cohort 2 vs Cohort 5 at Week 72	
Statistical analysis description:		
Difference in FM relative change from Week 24 to 72 between Cohorts 2 SFU and Cohort 5 SFU		
Comparison groups	Cohort 2 SFU v Cohort 5 SFU	

Number of subjects included in analysis	20
Analysis specification	Pre-specified
Analysis type	other <sup>[77]</sup>
P-value	= 0.078
Method	ANCOVA
Parameter estimate	Mean difference (final values)
Point estimate	-2.4
Confidence interval	
level	95 %
sides	2-sided
lower limit	-5.09
upper limit	0.28
Variability estimate	Standard error of the mean
Dispersion value	1.337

[77] - Comparison of LSMs across treatment groups (Cohort 2 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

Statistical analysis title	Cohort 3 vs Cohort 5 at Week 72

Statistical analysis description:

Difference in FM relative change from Week 24 to 72 between Cohort 3 SFU and Cohort 5 SFU

Comparison groups	Cohort 3 SFU v Cohort 5 SFU
Number of subjects included in analysis	22
Analysis specification	Pre-specified
Analysis type	other <sup>[78]</sup>
P-value	= 0.179
Method	ANCOVA
Parameter estimate	Mean difference (final values)
Point estimate	-1.71
Confidence interval	
level	95 %
sides	2-sided
lower limit	-4.24
upper limit	0.81
Variability estimate	Standard error of the mean
Dispersion value	1.258

Notes:

[78] - Comparison of LSMs across treatment groups (Cohort 3 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

Statistical analysis title	Cohort 4 vs Cohort 5 at Week 72
Statistical analysis description:	

# Difference in FM relative change from Week 24 to 72 between Cohorts 4 SFU and Cohort 5 SFU

Comparison groups	Cohort 4 SFU v Cohort 5 SFU
Number of subjects included in analysis	19
Analysis specification	Pre-specified
Analysis type	other <sup>[79]</sup>
P-value	= 0.592
Method	ANCOVA
Parameter estimate	Mean difference (final values)
Point estimate	-0.77

Confidence interval		
level	95 %	
sides	2-sided	
lower limit	-3.62	
upper limit	2.09	
Variability estimate	Standard error of the mean	
Dispersion value	1.423	

[79] - Comparison of LSMs across treatment groups (Cohort 4 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

#### Secondary: Period 2: Change in trunk fat from Week 24 to 72 (FAS-SFU)

End point title Period 2: Change in trunk fat from Week 24 to 72 (FAS-SFU)

End point description:

95% CIs for LSM changes from Week 24 (coupled with SE and degrees of freedom) at Week 72 were evaluated in an ANCOVA model with class variables: cohort, gender and GHD onset type (Childhood or Adult), and continuous covariates: change in HM10560A dose, week 24 result, age at screening (in years).

End point type	Secondary
End point timeframe:	
Weeks 24 to 72	

End point values	Cohort 1 SFU	Cohort 2 SFU	Cohort 3 SFU	Cohort 4 SFU
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	13	11	13	10
Units: kg				
least squares mean (standard error)	0.44 (± 0.486)	-0.61 (± 0.503)	-0.22 (± 0.462)	0.18 (± 0.56)

End point values	Cohort 5 SFU	FAS-SFU	
Subject group type	Reporting group	Subject analysis set	
Number of subjects analysed	9	<b>0</b> <sup>[80]</sup>	
Units: kg			
least squares mean (standard error)	0.18 (± 0.508)	()	

Notes:

[80] - It is not reasonable to summarize results across cohorts (except for baseline, reported separately).

### Statistical analyses

Statistical analysis title	Cohort 1 vs Cohort 5 at Week 72	
Statistical analysis description:		
Difference in trunk fat change from Week 24 to 72 between Cohort 1 SFU and Cohort 5 SFU		
Comparison groups	Cohort 1 SFU v Cohort 5 SFU	

Number of subjects included in analysis	22
Analysis specification	Pre-specified
Analysis type	other <sup>[81]</sup>
P-value	= 0.71
Method	ANCOVA
Parameter estimate	Mean difference (final values)
Point estimate	0.26
Confidence interval	
level	95 %
sides	2-sided
lower limit	-1.14
upper limit	1.66
Variability estimate	Standard error of the mean
Dispersion value	0.698

[81] - Comparison of LSMs across treatment groups (Cohort 1 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

Statistical analysis title	Cohort 2 vs Cohort 5 at Week 72
Statistical analysis description:	

Difference in trunk fat change from Week 24 to 72 between Cohort 2 SFU and Cohort 5 SFU

Comparison groups	Cohort 2 SFU v Cohort 5 SFU
Number of subjects included in analysis	20
Analysis specification	Pre-specified
Analysis type	other <sup>[82]</sup>
P-value	= 0.276
Method	ANCOVA
Parameter estimate	Mean difference (final values)
Point estimate	-0.79
Confidence interval	
level	95 %
sides	2-sided
lower limit	-2.23
upper limit	0.65
Variability estimate	Standard error of the mean
Dispersion value	0.718

Notes:

[82] - Comparison of LSMs across treatment groups (Cohort 2 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

Statistical analysis title	Cohort 3 vs Cohort 5 at Week 72
Statistical analysis description:	
Difference in truph fot change from Week 24 to 72 between Coberts 2 SELLand Cobert E SELL	

Difference in trunk fat change from Weel	k 24 to 72 between Cohorts 3 SFU and Cohort 5 SFU

Comparison groups	Cohort 3 SFU v Cohort 5 SFU
Number of subjects included in analysis	22
Analysis specification	Pre-specified
Analysis type	other <sup>[83]</sup>
P-value	= 0.554
Method	ANCOVA
Parameter estimate	Mean difference (final values)
Point estimate	-0.41

&RQILGHQFH LQWHUYDO	-
ОНҮНО	
VLGHV	VLGHG
ORZHU OLPLW	
XSSHU OLPLW	
9DULDELOLW\ HVWLPDWH	6WDQGDUG HUURU RI WKH PHDQ
'LVSHUVLRQ YDOXH	
1 R W H V	
> @ &RPSDULVRQ RI/60V \$1&29\$ PRGHO ZLWK 6(0	DFURVV WUHDWPHQW JURXSV &RKRUW 6)8 YV &RF &, DQG S YDOXH
Statistical analysis title	&RKRUW YV &RKRUW DW :HHN
6WDWLVWLFDO DQDO\VLV G	GHVFULSWLRQ
'LIIHUHQFH LQ WUXQN IDW	FKDQJH IURP : HHN WR EHWZHHQ & RKRUWV 6)8
&RPSDULVRQ JURXSV	&RKRUW 6)8 Y &RKRUW 6)8
1XPEHU RI VXEMHFWV LQFO	XGHG LQ DQDO\VLV
\$QDO\VLV VSHFLILFDWLRQ	3UH VSHFLILHG
\$QDO\VLV W\SH	RWKHU <sup>&gt;</sup> <sup>@</sup>
3 YDOXH	
0 H W K R G	\$1&29\$
3DUDPHWHU HVWLPDWH	OHDQ GLIIHUHQFH ILQDO YDOXHV
3RLQW HVWLPDWH	
&RQILGHQFH LQWHUYDO	
ОНҮНО	
VLGHV	VLGHG
ORZHU OLPLW	
XSSHU OLPLW	
9DULDELOLW\ HVWLPDWH	6WDQGDUG HUURU RI WKH PHDQ
'LVSHUVLRQ YDOXH	
1 R W H V	
> @ &RPSDULVRQ RI /60V \$1&29\$ PRGHO ZLWK 6(0	DFURVV WUHDWPHQW JURXSV &RKRUW 6)8 YV &RH &, DQG S YDOXH
Secondary: Period 2: Relative ch	ange in trunk fat from Week 24 to 72 (FAS-SFU)
(QG SRLQW WLWOH	3HULRG 5HODWLYH FKDQJH LQ WUXQN IDW IURP : )\$6 6)8
(QG SRLQW GHVFULSWLRQ	
&,V IRU /60 FKDQJHV I HYDOXDWHG LQ DQ \$1&29\$ \$GXOW DQG FRQWLQXRXV \HDUV	URP :HHN FRXSOHG ZLWK 6( DQG GHJUHHV RI IUH) PRGHO ZLWK FODVV YDULDEOHV FRKRUW JHQGHU I FRYDULDWHV FKDQJH LQ +0 \$GRVH ZHHN UH
(QG SRLQW W\SH	6HFRQGDU\
(QG SRLQW WLPHIUDPH	

: H H N V W R

End point values	Cohort 1 SFU	Cohort 2 SFU	Cohort 3 SFU	Cohort 4 SFU
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	13	11	13	10
Units: percent				
least squares mean (standard error)	0.79 (± 1.086)	-1.75 (± 1.126)	-1.27 (± 1.047)	-0.05 (± 1.262)

End point values	Cohort 5 SFU	FAS-SFU	
Subject group type	Reporting group	Subject analysis set	
Number of subjects analysed	9	0 <sup>[85]</sup>	
Units: percent			
least squares mean (standard error)	0.02 (± 1.149)	()	

[85] - It is not reasonable to summarize results across cohorts (except for baseline, reported separately).

#### Statistical analyses

Statistical analysis title	Cohort 1 vs Cohort 5 at Week 72

Statistical analysis description:

Difference in relative change in trunk fat from Week 24 to 72 between Cohort 1 SFU and Cohort 5 SFU

Comparison groups	Cohort 1 SFU v Cohort 5 SFU
Number of subjects included in analysis	22
Analysis specification	Pre-specified
Analysis type	other <sup>[86]</sup>
P-value	= 0.622
Method	ANCOVA
Parameter estimate	Mean difference (final values)
Point estimate	0.77
Confidence interval	
level	95 %
sides	2-sided
lower limit	-2.34
upper limit	3.87
Variability estimate	Standard error of the mean
Dispersion value	1.548

Notes:

[86] - Comparison of LSMs across treatment groComparison of LSMs across treatment groups (Cohort 1 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).ups (Cohort 1-4 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

Statistical	analysis title	C

ohort 2 vs Cohort 5 at Week 72

Statistical analysis description:

Difference in relative change in trunk fat from Week 24 to 72 between Cohorts 2 SFU and Cohort 5 SFU

Comparison groups	Cohort 2 SFU v Cohort 5 SFU
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Number of subjects included in analysis	20
Analysis specification	Pre-specified
Analysis type	other <sup>[87]</sup>
P-value	= 0.278
Method	ANCOVA
Parameter estimate	Mean difference (final values)
Point estimate	-1.77
Confidence interval	
level	95 %
sides	2-sided
lower limit	-5.02
upper limit	1.47
Variability estimate	Standard error of the mean
Dispersion value	1.616

[87] - Comparison of LSMs across treatment groups (Cohort 2 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

Statistical analysis title	Cohort 3 vs Cohort 5 at Week 72

Statistical analysis description:

Difference in relative change in trunk fat from Week 24 to 72 between Cohort 3 SFU and Cohort 5 SFU

Comparison groups	Cohort 3 SFU v Cohort 5 SFU
Number of subjects included in analysis	22
Analysis specification	Pre-specified
Analysis type	other <sup>[88]</sup>
P-value	= 0.401
Method	ANCOVA
Parameter estimate	Mean difference (final values)
Point estimate	-1.28
Confidence interval	
level	95 %
sides	2-sided
lower limit	-4.33
upper limit	1.76
Variability estimate	Standard error of the mean
Dispersion value	1.518

Notes:

[88] - Comparison of LSMs across treatment groups (Cohort 3 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

Statistical analysis title	Cohort 4 vs Cohort 5 at Week 72

Statistical analysis description:

Difference in relative change in trunk fat from Week 24 to 72 between Cohort 4 SFU and Cohort 5 SFU

Comparison groups	Cohort 4 SFU v Cohort 5 SFU
Number of subjects included in analysis	19
Analysis specification	Pre-specified
Analysis type	other <sup>[89]</sup>
P-value	= 0.97
Method	ANCOVA
Parameter estimate	Mean difference (final values)
Point estimate	-0.06

Confidence interval	
level	95 %
sides	2-sided
lower limit	-3.5
upper limit	3.37
Variability estimate	Standard error of the mean
Dispersion value	1.71

[89] - Comparison of LSMs across treatment groups (Cohort 4 SFU vs Cohort 5 SFU) using the same ANCOVA model (with SEM, 95% CI and p-value).

# Secondary: Period 2: Change in bone mineral density (BMD) from Week 24 to 72 (FAS-SFU)

End point title	Period 2: Change in bone mineral density (BMD) from Week 24
	to 72 (FAS-SFU)

End point description:

95% CIs for LSM changes from Week 24 (coupled with SE and degrees of freedom) at Week 72 were evaluated in an ANCOVA model with class variables: cohort, gender and GHD onset type (Childhood or Adult), and continuous covariates: change in HM10560A dose, week 24 result, age at screening (in years).

End point type	Secondary
End point timeframe:	
Weeks 24 to 72	

End point values	Cohort 1 SFU	Cohort 2 SFU	Cohort 3 SFU	Cohort 4 SFU
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	13	11	13	10
Units: g/cm2				
least squares mean (standard error)	0 (± 0.01)	-0.01 (± 0.01)	0 (± 0.01)	0.01 (± 0.012)

End point values	Cohort 5 SFU		
Subject group type	Reporting group		
Number of subjects analysed	9		
Units: g/cm2			
least squares mean (standard error)	0 (± 0.01)		

#### Statistical analyses

Statistical analysis title	Cohort 1 vs Cohort 5 at Week 72
Comparison groups	Cohort 1 SFU v Cohort 5 SFU

Number of subjects included in analysis	22	
Analysis specification	Pre-specified	
Analysis type	other	
P-value	= 0.802	
Method	ANCOVA	
Parameter estimate	Mean difference (final values)	
Point estimate	0	
Confidence interval		
level	95 %	
sides	2-sided	
lower limit	-0.03	
upper limit	0.02	
Variability estimate	Standard error of the mean	
Dispersion value	0.014	

Statistical analysis title	Cohort 2 vs Cohort 5 at Week 72	
Comparison groups	Cohort 2 SFU v Cohort 5 SFU	
Number of subjects included in analysis	20	
Analysis specification	Pre-specified	
Analysis type	other	
P-value	= 0.354	
Method	ANCOVA	
Parameter estimate	Mean difference (final values)	
Point estimate	-0.01	
Confidence interval		
level	95 %	
sides	2-sided	
lower limit	-0.04	
upper limit	0.02	
Variability estimate	Standard error of the mean	
Dispersion value	0.015	

Statistical analysis title	Cohort 3 vs Cohort 5 at Week 72	
Comparison groups	Cohort 3 SFU v Cohort 5 SFU	
Number of subjects included in analysis	22	
Analysis specification	Pre-specified	
Analysis type	other	
P-value	= 0.898	
Method	ANCOVA	
Parameter estimate	Mean difference (final values)	
Point estimate	0	
Confidence interval		
level	95 %	
sides	2-sided	
lower limit	-0.03	
upper limit	0.03	

Variability estimate	Standard error of the mean
Dispersion value	0.014

Statistical analysis title	Cohort 4 vs Cohort 5 at Week 72
Comparison groups	Cohort 4 SFU v Cohort 5 SFU
Number of subjects included in analysis	19
Analysis specification	Pre-specified
Analysis type	other
P-value	= 0.366
Method	ANCOVA
Parameter estimate	Mean difference (final values)
Point estimate	0.01
Confidence interval	
level	95 %
sides	2-sided
lower limit	-0.02
upper limit	0.05
Variability estimate	Standard error of the mean
Dispersion value	0.016

Adverse events information

Timeframe for reporting adverse events:

AEs were collected beginning after starting the study treatment and continued until 2 weeks after the subject received the last dose of the study treatment. SAEs, reporting started after the subject had provided IC until the same timeframe as AEs.

Adverse event reporting additional description:

Reported AEs(SAEs) are Treatment-emergent adverse events(TEAEs). TEAEs are summarized by the following study periods: Single Dose Run-in and 24-week Dose Finding Periods (Periods 3 and 1) pooled, and for the 48+2 weeks Long-term Safety Period (Period 2).

Assessment type	Systematic
Dictionary used	
Dictionary name	MedDRA
Dictionary version	14.1
Reporting groups	
Reporting group title	Cohort 1
Reporting group description:	
HM10560A 0.03 mg/kg EW	
Reporting group title	Cohort 2
Reporting group description:	
HM10560A 0.03 mg/kg EW for 4 weeks t	hen 0.06 mg/kg EW for 20 weeks
Reporting group title	Cohort 3
Reporting group description:	
HM10560A 0.03 mg/kg EW for 4 weeks t weeks	hen 0.06 mg/kg EW for 4 weeks then 0.10 mg/kg EW for 16
Reporting group title	Cohort 4
Reporting group description:	
HM10560A 0.04 mg/kg EOW for 4 weeks 16 weeks	then 0.08 mg/kg EOW for 4 weeks then 0.12 mg/kg EOW for
Reporting group title	Cohort 5
Reporting group description:	
standard daily rhGH	
Reporting group title	Cohort 1 SFU
Reporting group description:	
0.03 mg/kg HM10560A EW initially then subjects' age and gender-adjusted serun SDS dose increased 50% IGF-1 between decreased 25% IGF-1 >2 SDS dose decr	adjusted up to 6 times following monthly visits, according to n insulin-like growth factor- 1 (IGF-1) as follows: IGF-1 < -0.5 -0.5 and +1.5 SDS dose maintained IGF-1 > 1.5 SDS dose eased 50%.
Reporting group title	Cohort 2 SFU
Reporting group description:	
0.06 mg/kg HM10560A EW initially then subjects' age and gender-adjusted serun	adjusted up to 6 times following monthly visits, according to n IGF-1 (as detailed for cohort 1 SFU).
Reporting group title	Cohort 3 SFU
Reporting group description:	
0.10 mg/kg HM10560A EW initially then subjects' age and gender-adjusted serun	adjusted up to 6 times following monthly visits, according to n IGF-1 (as detailed for cohort 1 SFU).
Reporting group title	Cohort 4 SFU
Reporting group description:	
0.12 mg/kg EOW initially then adjusted u and gender-adjusted serum IGF-1 (as de	up to 6 times following monthly visits, according to subjects' age stailed for cohort 1 SFU).
Reporting group title	Cohort 5 SFU
Reporting group description:	
Switched from Genotropin to 0.03 mg/kg	HM10560A EW initially then adjusted up to 6 times following

Serious adverse events	Cohort 1	Cohort 2	Cohort 3
Total subjects affected by serious			
adverse events			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	1 / 14 (7.14%)
number of deaths (all causes)	0	0	0
number of deaths resulting from adverse events	0	0	0
Injury, poisoning and procedural complications			
Joint injury			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Cardiac disorders			
Acute myocardial infarction			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
General disorders and administration site conditions			
Pyrexia			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	1 / 14 (7.14%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Gastrointestinal disorders			
Gastric volvulus			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0/0
Endocrine disorders			
Adrenal insufficiency			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0/0
Infections and infestations			

Acute tonsillitis subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0

Serious adverse events	Cohort 4	Cohort 5	Cohort 1 SFU
Total subjects affected by serious adverse events			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
number of deaths (all causes)	0	0	0
number of deaths resulting from adverse events	0	0	0
Injury, poisoning and procedural complications			
Joint injury			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Cardiac disorders			
Acute myocardial infarction			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
General disorders and administration site conditions			
Pyrexia			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Gastrointestinal disorders			
Gastric volvulus			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Endocrine disorders			
Adrenal insufficiency			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0

Infections and infestations			
Acute tonsillitis			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0

Serious adverse events	Cohort 2 SFU	Cohort 3 SFU	Cohort 4 SFU
Total subjects affected by serious adverse events			
subjects affected / exposed	2 / 14 (14.29%)	0 / 14 (0.00%)	1 / 11 (9.09%)
number of deaths (all causes)	0	0	0
number of deaths resulting from adverse events	0	0	0
Injury, poisoning and procedural complications			
Joint injury			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Cardiac disorders			
Acute myocardial infarction			
subjects affected / exposed	1 / 14 (7.14%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences causally related to treatment / all	0/1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
General disorders and administration site conditions			
Pyrexia			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Gastrointestinal disorders			
Gastric volvulus			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	1 / 11 (9.09%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0/1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Endocrine disorders			
Adrenal insufficiency			
subjects affected / exposed	1 / 14 (7.14%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0

Infections and infestations			
Acute tonsillitis			
subjects affected / exposed	1 / 14 (7.14%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences causally related to treatment / all	0/1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0

Serious adverse events	Cohort 5 SFU	
Total subjects affected by serious adverse events		
subjects affected / exposed	1 / 14 (7.14%)	
number of deaths (all causes)	0	
number of deaths resulting from adverse events	0	
Injury, poisoning and procedural complications		
Joint injury		
subjects affected / exposed	1 / 14 (7.14%)	
occurrences causally related to treatment / all	0/1	
deaths causally related to treatment / all	0 / 0	
Cardiac disorders		
Acute myocardial infarction		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences causally related to treatment / all	0 / 0	
deaths causally related to treatment / all	0 / 0	
General disorders and administration site conditions		
Pyrexia		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences causally related to treatment / all	0 / 0	
deaths causally related to treatment / all	0 / 0	
Gastrointestinal disorders		
Gastric volvulus		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences causally related to treatment / all	0 / 0	
deaths causally related to treatment / all	0 / 0	
Endocrine disorders		
Adrenal insufficiency		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences causally related to treatment / all	0 / 0	
deaths causally related to treatment / all	0 / 0	

Infections and infestations		
Acute tonsillitis		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences causally related to treatment / all	0 / 0	
deaths causally related to treatment / all	0 / 0	

# Frequency threshold for reporting non-serious adverse events: 0 %

Non-serious adverse events	Cohort 1	Cohort 2	Cohort 3
Total subjects affected by non-serious adverse events			
subjects affected / exposed	6 / 15 (40.00%)	11 / 14 (78.57%)	8 / 14 (57.14%)
Neoplasms benign, malignant and unspecified (incl cysts and polyps)			
Pituitary tumour recurrent			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
General disorders and administration site conditions			
Asthenia			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Fatigue			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Chest pain			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Exercise tolerance decreased			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Face oedema			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Injection site atrophy			
subjects affected / exposed	1 / 15 (6.67%)	2 / 14 (14.29%)	1 / 14 (7.14%)
occurrences (all)	1	2	2
Injection site erythema			
subjects affected / exposed	0 / 15 (0.00%)	1 / 14 (7.14%)	0 / 14 (0.00%)
-----------------------------	----------------	----------------	-----------------
occurrences (all)	0	1	0
Injection site haematoma			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Injection site induration			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Injection site nodule			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Injection site pain			
subjects affected / exposed	0 / 15 (0.00%)	1 / 14 (7.14%)	1 / 14 (7.14%)
occurrences (all)	0	3	1
Injection site pruritus			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Malaise			
subjects affected / exposed	0 / 15 (0.00%)	1 / 14 (7.14%)	0 / 14 (0.00%)
occurrences (all)	0	2	0
Oedema peripheral			
subjects affected / exposed	0 / 15 (0.00%)	1 / 14 (7.14%)	3 / 14 (21.43%)
occurrences (all)	0	2	3
Oedema			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Pyrexia			
subjects affected / exposed	0 / 15 (0.00%)	1 / 14 (7,14%)	1 / 14 (7,14%)
occurrences (all)	0	1	-, (//) >
	0	Ţ	2

Dysmenorrhoea			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Respiratory, thoracic and mediastinal			
disorders			
Oropharyngeal pain			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	1 / 14 (7.14%)
occurrences (all)	0	0	1
Cough			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)		0	0
	, , , , , , , , , , , , , , , , , , ,	Ŭ	Ū
Pharyngeal erythema			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Rhinitis allergic			
subjects affected / exposed		0 / 14 /0 000/ )	0 / 14 /0 000/ )
	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Psychiatric disorders			
Food aversion			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Δηγίετα			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0 00%)	0 / 14 (0 000/)
	0 / 13 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Investigations			
Alanine aminotransferase increased			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Aspartate aminotransferase			
increased			
subjects affected / exposed	1 / 15 (6.67%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	1	0	0
Blood pressure increased			
subjects affected / exposed		0 / 14 /0 000/ )	0 / 14 (0 000()
	0 / 15 (0.00%)	0/14(0.00%)	0/14(0.00%)
occurrences (all)	0	0	0
Thyroxine free decreased			
subjects affected / exposed	0 / 15 (0.00%)	1 / 14 (7.14%)	0 / 14 (0.00%)
occurrences (all)	0	1	0
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Thyroxine increased			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
White blood cell count decreased			
subjects affected / exposed	0 / 15 (0 00%)	0 / 14 (0 00%)	1 / 14 (7 14%)
occurrences (all)	0	0	1
Weight increased			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Blood lactate dehydrogenase increased			
subjects affected / exposed	1 / 15 (6.67%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	1	0	0
Injury, poisoning and procedural complications			
Animal bite			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	1 / 14 (7.14%)
occurrences (all)	0	0	1
	Ŭ	Ū	-
Cardiac disorders			
Sinus bradycardia			
subjects affected / exposed	0 / 15 (0.00%)	2 / 14 (14.29%)	1 / 14 (7.14%)
occurrences (all)	0	2	1
Palpitations			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
	Ŭ	0	Ŭ
Nervous system disorders			
Headache			
subjects affected / exposed	1 / 15 (6.67%)	1 / 14 (7.14%)	0 / 14 (0.00%)
occurrences (all)	1	2	0
Hypoaesthesia			
subjects affected / exposed	0 / 15 (0.00%)	1 / 14 (7.14%)	0 / 14 (0.00%)
occurrences (all)	0	1	0
Paraesthesia			
subjects affected / exposed	0 / 15 (0 00%)	0 / 14 (0 00%)	1 / 14 (7 14%)
	0 / 15 (0.00 /0)	0 / 14 (0.00 /0)	1/14(7.1470)
occurrences (all)	Û	0	1
Syncope			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
	1		

Blood and lymphatic system disorders			
Anaemia			
subjects affected / exposed	0 / 15 (0.00%)	1 / 14 (7.14%)	0 / 14 (0.00%)
occurrences (all)	0	1	0
Iron deficiency anaemia			
subjects affected / exposed	0 / 15 (0.00%)	1 / 14 (7.14%)	1 / 14 (7.14%)
occurrences (all)	0	1	1
	Ŭ	-	-
Lymphadenopathy			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Ear and labyrinth disorders			
Tinnitus			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Vertigo			
subjects affected / exposed	1 / 15 (6.67%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	1	0	0
Ear pain			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Eye disorders			
Blepharospasm			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
occurrences (all)	0	0	0
occurrences (all) Conjunctivitis	0	0	0
occurrences (all) Conjunctivitis subjects affected / exposed	0 0 / 15 (0.00%)	0 1 / 14 (7.14%)	0 0 / 14 (0.00%)
occurrences (all) Conjunctivitis subjects affected / exposed occurrences (all)	0 0 / 15 (0.00%) 0	0 1 / 14 (7.14%) 1	0 0 / 14 (0.00%) 0
occurrences (all) Conjunctivitis subjects affected / exposed occurrences (all) Eye pain	0 0 / 15 (0.00%) 0	0 1 / 14 (7.14%) 1	0 0 / 14 (0.00%) 0
occurrences (all) Conjunctivitis subjects affected / exposed occurrences (all) Eye pain subjects affected / exposed	0 0 / 15 (0.00%) 0 0 / 15 (0.00%)	0 1 / 14 (7.14%) 1 0 / 14 (0.00%)	0 0 / 14 (0.00%) 0 0 / 14 (0.00%)
occurrences (all) Conjunctivitis subjects affected / exposed occurrences (all) Eye pain subjects affected / exposed occurrences (all)	0 0 / 15 (0.00%) 0 0 / 15 (0.00%) 0	0 1 / 14 (7.14%) 1 0 / 14 (0.00%) 0	0 0 / 14 (0.00%) 0 0 / 14 (0.00%) 0
occurrences (all) Conjunctivitis subjects affected / exposed occurrences (all) Eye pain subjects affected / exposed occurrences (all)	0 0 / 15 (0.00%) 0 0 / 15 (0.00%) 0	0 1 / 14 (7.14%) 1 0 / 14 (0.00%) 0	0 0 / 14 (0.00%) 0 0 / 14 (0.00%) 0
occurrences (all) Conjunctivitis subjects affected / exposed occurrences (all) Eye pain subjects affected / exposed occurrences (all) Visual impairment subjects affected / exposed	0 0 / 15 (0.00%) 0 0 / 15 (0.00%) 0	0 1 / 14 (7.14%) 1 0 / 14 (0.00%) 0	0 0 / 14 (0.00%) 0 0 / 14 (0.00%) 0
<ul> <li>occurrences (all)</li> <li>Conjunctivitis         <ul> <li>subjects affected / exposed</li> <li>occurrences (all)</li> </ul> </li> <li>Eye pain         <ul> <li>subjects affected / exposed</li> <li>occurrences (all)</li> </ul> </li> <li>Visual impairment         <ul> <li>subjects affected / exposed</li> <li>occurrences (all)</li> </ul> </li> </ul>	0 0 / 15 (0.00%) 0 0 / 15 (0.00%) 0 0 / 15 (0.00%)	0 1 / 14 (7.14%) 1 0 / 14 (0.00%) 0 0 / 14 (0.00%)	0 0 / 14 (0.00%) 0 0 / 14 (0.00%) 0 0 / 14 (0.00%)
Conjunctivitis subjects affected / exposed occurrences (all) Eye pain subjects affected / exposed occurrences (all) Visual impairment subjects affected / exposed occurrences (all)	0 0 / 15 (0.00%) 0 0 / 15 (0.00%) 0 0 / 15 (0.00%) 0	0 1 / 14 (7.14%) 1 0 / 14 (0.00%) 0 0 / 14 (0.00%) 0	0 0 / 14 (0.00%) 0 0 / 14 (0.00%) 0 0 / 14 (0.00%) 0
Conjunctivitis subjects affected / exposed occurrences (all) Eye pain subjects affected / exposed occurrences (all) Visual impairment subjects affected / exposed occurrences (all) Gastrointestinal disorders	0 0 / 15 (0.00%) 0 0 / 15 (0.00%) 0 0 / 15 (0.00%) 0	0 1 / 14 (7.14%) 1 0 / 14 (0.00%) 0 0 / 14 (0.00%) 0	0 0 / 14 (0.00%) 0 0 / 14 (0.00%) 0 0 / 14 (0.00%) 0
Conjunctivitis subjects affected / exposed occurrences (all) Eye pain subjects affected / exposed occurrences (all) Visual impairment subjects affected / exposed occurrences (all) Gastrointestinal disorders Abdominal pain	0 0 / 15 (0.00%) 0 0 / 15 (0.00%) 0 0 / 15 (0.00%) 0	0 1 / 14 (7.14%) 1 0 / 14 (0.00%) 0 0 / 14 (0.00%) 0	0 0 / 14 (0.00%) 0 0 / 14 (0.00%) 0 0 / 14 (0.00%) 0
Conjunctivitis subjects affected / exposed occurrences (all) Eye pain subjects affected / exposed occurrences (all) Visual impairment subjects affected / exposed occurrences (all) Gastrointestinal disorders Abdominal pain subjects affected / exposed	0 0 / 15 (0.00%) 0 0 / 15 (0.00%) 0 0 / 15 (0.00%) 0	0 1 / 14 (7.14%) 1 0 / 14 (0.00%) 0 0 / 14 (0.00%) 0	0 0 / 14 (0.00%) 0 0 / 14 (0.00%) 0 0 / 14 (0.00%) 0 1 / 14 (7.14%)
occurrences (all)         Conjunctivitis         subjects affected / exposed         occurrences (all)         Eye pain         subjects affected / exposed         occurrences (all)         Visual impairment         subjects affected / exposed         occurrences (all)         Gastrointestinal disorders         Abdominal pain         subjects affected / exposed         occurrences (all)	0 0 / 15 (0.00%) 0 0 / 15 (0.00%) 0 0 / 15 (0.00%) 0 0 / 15 (0.00%) 0	0 1 / 14 (7.14%) 1 0 / 14 (0.00%) 0 0 / 14 (0.00%) 0 0 / 14 (0.00%) 0	0 0 / 14 (0.00%) 0 0 / 14 (0.00%) 0 0 / 14 (0.00%) 0 1 / 14 (7.14%) 1

Abdominal discomfort			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Abdominal distension			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Abdominal pain upper			
subjects affected / exposed	0 / 15 (0.00%)	1 / 14 (7.14%)	1 / 14 (7.14%)
occurrences (all)	0	1	1
Diarrhoea			
subjects affected / exposed	1 / 15 (6.67%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	1	0	0
Dycoopsia			
subjects affected / exposed	0 / 15 (0 00%)	0 / 1/ (0 00%)	0 / 14 (0 00%)
	0 / 13 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
	U	U	U
Gastrooesophageal reflux disease			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Inquinal hernia			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	1 / 14 (7.14%)
occurrences (all)	0	0	1
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Nausea			
subjects affected / exposed	1 / 15 (6.67%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	1	0	0
Toothache			
subjects affected / exposed	0 / 15 (0.00%)	1 / 14 (7.14%)	0 / 14 (0.00%)
occurrences (all)	0	4	0
Vomiting			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
	-	-	-
Gastrointestinal infection			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Skin and subcutaneous tissue disorders			
Acne			

subjects affected / exposed	0 / 15 (0.00%)	2 / 14 (14.29%)	1 / 14 (7.14%)
occurrences (all)	0	2	1
Dermatitis atopic			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Blister			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Diabetic dermopathy			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Dry skin			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Dvshidrosis			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Eczema			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Pruritus			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Rash			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Renal and urinary disorders			
Renal colic			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Endocrine disorders			
Hypercorticoidism			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Hyperthyroidism			

subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Hypothyroidism subjects affected / exposed			0 / 14 /0 00%)
	0 / 15 (0.00%)	1 / 14 (7.14%)	0 / 14 (0.00%)
	0	1	0
Adrenal insufficiency			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Musculoskeletal and connective tissue			
disorders			
subjects affected / exposed	0 / 15 (0 00%)	2 / 14 (14 20%)	0 / 14 (0 00%)
	0 / 13 (0.00%)	2 / 14 (14.29%)	0 / 14 (0.00%)
	U	2	U
Back pain			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Bone pain			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Limb discomfort			
	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
	0	0	0
Muscle spasms			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Mvalgia			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Neck pain			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Osteoporosis			
subjects affected / exposed	1 / 15 (6.67%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	1	0	0
Osteoarthritis			

subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Pain in extremity			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Tendonitis			
subjects affected / exposed	0 / 15 (0.00%)	1 / 14 (7.14%)	0 / 14 (0.00%)
occurrences (all)	0, 10 (0.00, 10)	1	0
	0	L	U
Infections and infestations			
Bacterial infection			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Propehitic			
subjects affected / exposed		0 ( 14 (0 00%)	0 ( 14 (0 000( )
	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Gastroenteritis			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Gastroenteritis virai			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Influenza			
subjects affected / exposed	1 / 15 (6.67%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	1	0	0
subjects affected / exposed		2 / 1 / (1 / 200/)	0 ( 14 ( 0 000( )
	0 / 15 (0.00%)	2 / 14 (14.29%)	0 / 14 (0.00%)
occurrences (all)	0	2	0
Pharyngitis			
subjects affected / exposed	0 / 15 (0.00%)	1 / 14 (7.14%)	0 / 14 (0.00%)
occurrences (all)	0	1	0
Respiratory tract infection			
subjects affected / exposed	0 / 15 (0.00%)	1 / 14 (7.14%)	0 / 14 (0.00%)
occurrences (all)	0	3	0
Rhinitis			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
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Salpingo-oophoritis			
subjects affected / exposed	1 / 15 (6.67%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	1	0	0
Upper respiratory tract infection			
subjects affected / exposed	0 / 15 (0.00%)	1 / 14 (7.14%)	1 / 14 (7.14%)
occurrences (all)	0	1	2
Viral upper respiratory tract infection			
subjects affected / exposed	1 / 15 (6.67%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	1	0	0
Viral infection			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Sinusitis			
subjects affected / exposed	0 / 15 (0.00%)	2 / 14 (14.29%)	0 / 14 (0.00%)
occurrences (all)	0	2	0
Acute tonsillitis			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0
Metabolism and nutrition disorders			
Hyperglycaemia			
subjects affected / exposed	0 / 15 (0.00%)	0 / 14 (0.00%)	0 / 14 (0.00%)
occurrences (all)	0	0	0

Non-serious adverse events	Cohort 4	Cohort 5	Cohort 1 SFU
Total subjects affected by non-serious adverse events			
subjects affected / exposed	4 / 12 (33.33%)	8 / 14 (57.14%)	4 / 13 (30.77%)
Neoplasms benign, malignant and unspecified (incl cysts and polyps)			
Pituitary tumour recurrent			
subjects affected / exposed	0 / 12 (0.00%)	1 / 14 (7.14%)	0 / 13 (0.00%)
occurrences (all)	0	1	0
General disorders and administration site conditions			
Asthenia			
subjects affected / exposed	0 / 12 (0.00%)	1 / 14 (7.14%)	0 / 13 (0.00%)
occurrences (all)	0	1	0
Fatigue			

occurrences (all)020Chest pain subjects affected / exposed occurrences (all)0 / 12 (0.00%) 00 / 14 (0.00%) 00 / 13 (0.00%) 0Exercise tolerance decreased subjects affected / exposed occurrences (all)0 / 12 (0.00%) 00 / 14 (0.00%) 00 / 13 (0.00%) 0Face oedema subjects affected / exposed occurrences (all)0 / 12 (0.00%) 00 / 14 (0.00%) 00 / 13 (0.00%) 0Injection site atrophy subjects affected / exposed occurrences (all)2 / 12 (16.67%) 10 / 14 (0.00%) 01 / 13 (7.69%) 2Injection site atrophy subjects affected / exposed occurrences (all)1 / 12 (8.33%) 01 / 14 (7.14%) 00 / 13 (0.00%) 0Injection site atrophy subjects affected / exposed occurrences (all)0 / 12 (0.00%) 00 / 14 (0.00%) 00 / 13 (0.00%) 0Injection site haematoma subjects affected / exposed occurrences (all)0 / 12 (0.00%) 00 / 14 (0.00%) 01 / 13 (7.69%) 0Injection site notule subjects affected / exposed occurrences (all)0 / 12 (0.00%) 00 / 14 (0.00%) 00 / 13 (0.00%) 0Injection site notule subjects affected / exposed occurrences (all)0 / 12 (0.00%) 00 / 14 (0.00%) 00 / 13 (0.00%) 0Injection site pain subjects affected / exposed occurrences (all)0 / 12 (0.00%) 00 / 14 (0.00%) 00 / 13 (0.00%) 0Injection site pain subjects affected / exposed occurrences (all)0 / 12 (0.00%) 00 / 13 (0.00%) 00 / 13 (0.00%) 0	subjects affected / exposed	0 / 12 (0.00%)	1 / 14 (7.14%)	0 / 13 (0.00%)
Chest pain subjects affected / exposed occurrences (all)         0 / 12 (0.00%) 0         0 / 14 (0.00%) 0         0 / 13 (0.00%) 0           Exercise tolerance decreased subjects affected / exposed occurrences (all)         0 / 12 (0.00%) 0         0 / 14 (0.00%) 0         0 / 13 (0.00%) 0           Face oedema subjects affected / exposed occurrences (all)         0 / 12 (0.00%) 0         0 / 14 (0.00%) 0         0 / 13 (0.00%) 0           Injection site atrophy subjects affected / exposed occurrences (all)         2 / 12 (16.67%) 5         0 / 14 (0.00%) 0         1 / 13 (7.69%) 2           Injection site atrophy subjects affected / exposed occurrences (all)         1 / 12 (8.33%) 1 / 14 (7.14%)         0 / 13 (0.00%) 0           Injection site haaematoma subjects affected / exposed occurrences (all)         0 / 12 (0.00%) 0         0 / 14 (0.00%) 0         1 / 13 (7.69%) 2           Injection site induration subjects affected / exposed occurrences (all)         0 / 12 (0.00%) 0         0 / 14 (0.00%) 0         0 / 13 (0.00%) 0           Injection site notule subjects affected / exposed occurrences (all)         0 / 12 (0.00%) 0         0 / 14 (0.00%) 0         2 / 13 (15.38%) 0           Injection site pain subjects affected / exposed occurrences (all)         0 / 12 (0.00%) 0         1 / 14 (7.14%) 0         0 / 13 (0.00%) 0           Injection site pain subjects affected / exposed occurrences (all)         0 / 12 (0.00%) 0         0 / 13 (0.00%) 0         0 / 13 (0.00%) 0	occurrences (all)	0	2	0
subjects affected / exposed occurrences (all)         0 / 12 (0.00%)         0 / 13 (0.00%)           0         0         0         0           Exercise tolerance decreased subjects affected / exposed occurrences (all)         0 / 12 (0.00%)         0 / 13 (0.00%)         0           Face oedema subjects affected / exposed occurrences (all)         0 / 12 (0.00%)         0 / 14 (0.00%)         0 / 13 (0.00%)           Injection site atrophy subjects affected / exposed occurrences (all)         0 / 12 (0.00%)         0 / 14 (0.00%)         0 / 13 (0.00%)           Injection site atrophy subjects affected / exposed occurrences (all)         2 / 12 (16.67%)         0 / 14 (0.00%)         1 / 13 (7.69%)           occurrences (all)         1         1         0         2           Injection site atrophy subjects affected / exposed occurrences (all)         0 / 12 (0.00%)         0 / 13 (0.00%)         0 / 13 (0.00%)           occurrences (all)         0         0         0         0         0           Injection site induration subjects affected / exposed occurrences (all)         0 / 12 (0.00%)         0 / 14 (0.00%)         0 / 13 (0.00%)           occurrences (all)         0         0         0         0           Injection site pain subjects affected / exposed occurrences (all)         0 / 12 (0.00%)         0 / 13 (0.00%)         0 / 13 (0.00%)	Chest pain			
occurrences (all)         0         0         0           Exercise tolerance decreased subjects affected / exposed occurrences (all)         0 / 12 (0.00%) 0         0 / 14 (0.00%) 0         0 / 13 (0.00%) 0           Face oedema subjects affected / exposed occurrences (all)         0 / 12 (0.00%) 0         0 / 14 (0.00%) 0         0 / 13 (0.00%) 0           Injection site atrophy subjects affected / exposed occurrences (all)         2 / 12 (16.67%) 5         0 / 14 (0.00%) 0         1 / 13 (7.69%) 2           Injection site atrophy subjects affected / exposed occurrences (all)         1 / 12 (8.33%) 1         1 / 14 (7.14%) 0         0 / 13 (0.00%) 0           Injection site haematoma subjects affected / exposed occurrences (all)         0 / 12 (0.00%) 0         0 / 14 (0.00%) 0         0 / 13 (0.00%) 0           Injection site induration subjects affected / exposed occurrences (all)         0 / 12 (0.00%) 0         0 / 14 (0.00%) 0         0 / 13 (0.00%) 0           Injection site nodule subjects affected / exposed occurrences (all)         0 / 12 (0.00%) 0         0 / 14 (0.00%) 0         0 / 13 (0.00%) 0           Injection site pain subjects affected / exposed occurrences (all)         0 / 12 (0.00%) 0         0 / 14 (0.00%) 0         0 / 13 (0.00%) 0           Injection site prurtus subjects affected / exposed occurrences (all)         0 / 12 (0.00%) 0         0 / 14 (0.00%) 0         0 / 13 (0.00%) 0           Malaise subjects affected / exposed occurrences (all	subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
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Occurrences (all)001Injection site nodule subjects affected / exposed occurrences (all)0 / 12 (0.00%) 00 / 14 (0.00%) 00 / 13 (0.00%) 0Injection site pain subjects affected / exposed occurrences (all)1 / 12 (8.33%) 40 / 14 (0.00%) 92 / 13 (15.38%) 9Injection site pruritus subjects affected / exposed occurrences (all)0 / 12 (0.00%) 01 / 14 (7.14%) 00 / 13 (0.00%) 0Malaise subjects affected / exposed occurrences (all)0 / 12 (0.00%) 00 / 14 (0.00%) 00 / 13 (0.00%) 0Malaise subjects affected / exposed occurrences (all)0 / 12 (0.00%) 00 / 14 (0.00%) 00 / 13 (0.00%) 0	occurrences (all)	0 / 12 (0.00 /0)	0 / 14 (0.00 %)	1 1 1 1 (7.0970)
Injection site nodule subjects affected / exposed occurrences (all)0 / 12 (0.00%) 00 / 14 (0.00%) 00 / 13 (0.00%) 0Injection site pain subjects affected / exposed occurrences (all)1 / 12 (8.33%) 40 / 14 (0.00%) 92 / 13 (15.38%) 9Injection site pruritus subjects affected / exposed occurrences (all)0 / 12 (0.00%) 01 / 14 (7.14%) 0 / 13 (0.00%) 00 / 13 (0.00%) 0Malaise subjects affected / exposed occurrences (all)0 / 12 (0.00%) 00 / 14 (0.00%) 00 / 13 (0.00%) 0Malaise subjects affected / exposed occurrences (all)0 / 12 (0.00%) 00 / 14 (0.00%) 00 / 13 (0.00%) 0		U	0	L L
subjects affected / exposed       0 / 12 (0.00%)       0 / 14 (0.00%)       0 / 13 (0.00%)         occurrences (all)       0       0       0         Injection site pain subjects affected / exposed       1 / 12 (8.33%)       0 / 14 (0.00%)       2 / 13 (15.38%)         occurrences (all)       4       0       9         Injection site pruritus subjects affected / exposed       0 / 12 (0.00%)       1 / 14 (7.14%)       0 / 13 (0.00%)         occurrences (all)       0       1       0       1       0         Malaise subjects affected / exposed occurrences (all)       0 / 12 (0.00%)       0 / 14 (0.00%)       0 / 13 (0.00%)         Ocdeema peripheral       0       0       0       0       0	Injection site nodule			
occurrences (all)000Injection site pain subjects affected / exposed1 / 12 (8.33%)0 / 14 (0.00%)2 / 13 (15.38%)occurrences (all)409Injection site pruritus subjects affected / exposed0 / 12 (0.00%)1 / 14 (7.14%)0 / 13 (0.00%)occurrences (all)0100Malaise subjects affected / exposed0 / 12 (0.00%)0 / 14 (0.00%)0 / 13 (0.00%)occurrences (all)0000Oedema peripheral00	subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
Injection site pain subjects affected / exposed occurrences (all)1 / 12 (8.33%)0 / 14 (0.00%)2 / 13 (15.38%)Injection site pruritus subjects affected / exposed0 / 12 (0.00%)1 / 14 (7.14%)0 / 13 (0.00%)occurrences (all)0101Malaise subjects affected / exposed0 / 12 (0.00%)0 / 14 (0.00%)0 / 13 (0.00%)Occurrences (all)0000Oedema peripheral0000	occurrences (all)	0	0	0
subjects affected / exposed       1 / 12 (8.33%)       0 / 14 (0.00%)       2 / 13 (15.38%)         occurrences (all)       4       0       9         Injection site pruritus       0 / 12 (0.00%)       1 / 14 (7.14%)       0 / 13 (0.00%)         occurrences (all)       0       1       0         Malaise       subjects affected / exposed       0 / 12 (0.00%)       0 / 14 (0.00%)       0 / 13 (0.00%)         Malaise       0 / 12 (0.00%)       0 / 14 (0.00%)       0 / 13 (0.00%)       0         Occurrences (all)       0       0       0       0         Oedema peripheral       0       0       0       0	Injection site pain			
occurrences (all)409Injection site pruritus subjects affected / exposed0 / 12 (0.00%)1 / 14 (7.14%)0 / 13 (0.00%)occurrences (all)0100Malaise subjects affected / exposed0 / 12 (0.00%)0 / 14 (0.00%)0 / 13 (0.00%)occurrences (all)0000Oedema peripheral0000	subjects affected / exposed	1 / 12 (8.33%)	0 / 14 (0.00%)	2 / 13 (15.38%)
Injection site pruritus subjects affected / exposed occurrences (all)0 / 12 (0.00%) 01 / 14 (7.14%)0 / 13 (0.00%)Malaise subjects affected / exposed occurrences (all)0 / 12 (0.00%)0 / 14 (0.00%)0 / 13 (0.00%)001000Oedema peripheral0000	occurrences (all)	4	0	9
subjects affected / exposed       0 / 12 (0.00%)       1 / 14 (7.14%)       0 / 13 (0.00%)         occurrences (all)       0       1       0         Malaise       subjects affected / exposed       0 / 12 (0.00%)       0 / 14 (0.00%)       0 / 13 (0.00%)         occurrences (all)       0       0       0       0       0         Oedema peripheral       0       0       0       0       0	Injection site pruritus			
occurrences (all)010Malaise subjects affected / exposed0 / 12 (0.00%)0 / 14 (0.00%)0 / 13 (0.00%)occurrences (all)0000	subjects affected / exposed	0 / 12 (0.00%)	1 / 14 (7.14%)	0 / 13 (0.00%)
Malaise subjects affected / exposed0 / 12 (0.00%)0 / 14 (0.00%)0 / 13 (0.00%)occurrences (all)0000Oedema peripheral0000	occurrences (all)	0	1	0
subjects affected / exposed       0 / 12 (0.00%)       0 / 14 (0.00%)       0 / 13 (0.00%)         occurrences (all)       0       0       0         Oedema peripheral       0       0       0	Malaise			
occurrences (all)     0     0     0       Oedema peripheral     0     0     0	subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
Oedema peripheral	occurrences (all)	0	0	0
	Oedema peripheral			

subjects affected / exposed	0 / 12 (0.00%)	1 / 14 (7.14%)	0 / 13 (0.00%)
occurrences (all)	0	3	0
Oedema			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Pyrexia			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	1 / 13 (7.69%)
occurrences (all)	0	0	1
Immune system disorders			
Hypersensitivity			
subjects affected / exposed	0 / 12 (0.00%)	1 / 14 (7.14%)	0 / 13 (0.00%)
occurrences (all)	0	1	0
Reproductive system and breast			
disorders			
subjects affected / exposed	0 / 12 /0 000/ )	0 / 14 /0 000/ )	0 ( 12 (0 000( )
	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Respiratory, thoracic and mediastinal disorders			
Oropharyngeal pain			
subjects affected / exposed	0 / 12 (0.00%)	1 / 14 (7.14%)	0 / 13 (0.00%)
occurrences (all)	0	2	0
Cough			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Pharyngeal erythema			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
subjects affected / exposed			0 / 12 /0 000/ \
	0 / 12 (0.00%)	1 / 14 (7.14%)	0 / 13 (0.00%)
	0	1	0
Psychiatric disorders			
Food aversion			
subjects affected / exposed	0 / 12 (0.00%)	1 / 14 (7.14%)	0 / 13 (0.00%)
occurrences (all)	0	1	0
Anxiety			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0

Investigations			
Alanine aminotransferase increased			
subjects affected / exposed	1 / 12 (8.33%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	1	0	0
Aspartate aminotransferase increased			
subjects affected / exposed	1 / 12 (8.33%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	1	0	0
Blood pressure increased			
subjects affected / exposed	0 / 12 (0.00%)	1 / 14 (7.14%)	0 / 13 (0.00%)
occurrences (all)	0	1	0
Thyroxine free decreased			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Thyroxine increased			
subjects affected / exposed	0 / 12 (0.00%)	1 / 14 (7.14%)	0 / 13 (0.00%)
occurrences (all)	0	1	0
White blood cell count decreased			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Weight increased			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Blood lactate dehydrogenase increased			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Injury, poisoning and procedural complications			
Animal bite			
subjects affected / exposed			0 / 13 (0.00%)

subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Nervous system disorders			
Headache			
subjects affected / exposed	1 / 12 (8.33%)	2 / 14 (14.29%)	0 / 13 (0.00%)
occurrences (all)	3	4	0
Hypoaesthesia			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Paraesthesia			
subjects affected / exposed	0 / 12 (0.00%)	1 / 14 (7.14%)	0 / 13 (0.00%)
occurrences (all)	0	2	0
Syncope			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Blood and lymphatic system disorders			
Anaemia			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Iron deficiency anaemia			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Lymphadenopathy			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Ear and labyrinth disorders			
Tinnitus			
subjects affected / exposed	0 / 12 (0.00%)	1 / 14 (7.14%)	0 / 13 (0.00%)
occurrences (all)	0	1	0
Vertigo			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Ear pain			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Eye disorders			

	1	I	1
Blepharospasm			
	0 / 12 (0.00%)	1 / 14 (/.14%)	0 / 13 (0.00%)
occurrences (an)	0	1	0
Conjunctivitis			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Eve pain			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Visual impairment			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
	0	0	0
Gastrointestinal disorders			
Abdominal pain			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Abdominal discomfort			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	1 / 13 (7.69%)
occurrences (all)	0	0	1
Abdominal distension			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Abdominal pain uppor			
subjects affected / exposed	0 / 12 (0 00%)	1 / 14 (7 14%)	0 / 13 (0 00%)
occurrences (all)	0	1	0
	0	I	0
Diarrhoea			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	1 / 13 (7.69%)
occurrences (all)	0	0	1
Dyspepsia			
subjects affected / exposed	0 / 12 (0.00%)	1 / 14 (7.14%)	0 / 13 (0.00%)
occurrences (all)	0	1	0
Castropoconhagoal roflux disaaca			
subjects affected / exposed	0 / 12 (0 00%)	1 / 1/ (7 1/0/)	0 / 13 (0 00%)
	0 / 12 (0.00%)	1 / 14 (/.1470)	0 / 13 (0.00%)
	U	Ţ	U
Inguinal hernia			

subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Nausea			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Toothache			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Vomiting			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	1 / 13 (7.69%)
occurrences (all)	0	0	1
Gastrointestinal infection			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Skin and subcutaneous tissue disorders			
Acne			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Dermatitis atopic			
subjects affected / exposed	0 / 12 (0.00%)	1 / 14 (7.14%)	0 / 13 (0.00%)
occurrences (all)	0	1	0
Blieter			
subjects affected / exposed	0 / 12 (0 00%)	0 / 14 (0 00%)	0 / 13 (0 00%)
occurrences (all)	0	0	0
Diabetic dermopathy			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Dry skin			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Dvshidrosis			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Eczomo			
ECZEMA	0 / 10 /0 000/	0 / 14 /0 000()	0 / 10 /0 000/
	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
	•		•

Pruritus			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Pach			
subjects affected / exposed	0 / 12 /0 000/ )	0 / 14 /0 000/ )	0 ( 12 (0 000( )
	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Renal and urinary disorders			
Renal colic			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	1 / 13 (7.69%)
occurrences (all)	0	0	1
Endocrine disorders			
Hypercorticoidism			
subjects affected / exposed	0 / 12 (0.00%)	1 / 14 (7.14%)	0 / 13 (0.00%)
occurrences (all)	0	1	0
Hyperthyroidism			
subjects affected / exposed	0 / 12 (0.00%)	1 / 14 (7.14%)	0 / 13 (0.00%)
occurrences (all)	0	1	0
Hypothyroidism			
subjects affected / exposed	0 / 12 (0 00%)	0 / 1/ (0 00%)	0 / 13 (0 00%)
	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
	0	0	0
Adrenal insufficiency			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
	0	U	U
Musculoskeletal and connective tissue disorders			
Arthralgia			
subjects affected / exposed	1 / 12 (8.33%)	1 / 14 (7.14%)	1 / 13 (7.69%)
occurrences (all)	1	2	1
	_	_	-
Back pain			
subjects affected / exposed	0 / 12 (0.00%)	2 / 14 (14.29%)	0 / 13 (0.00%)
occurrences (all)	0	2	0
Bone pain			
subjects affected / exposed	0 / 12 (0.00%)	1 / 14 (7.14%)	0 / 13 (0.00%)
occurrences (all)	0	2	0
Limb discomfort			
subjects affected / exposed		0 / 14 /0 000/ )	0 ( 12 (0 000) )
	0 / 12 (0.00%)	0/14(0.00%)	0/13(0.00%)
occurrences (all)	0	0	0

Muscle spasms			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Mvalgia			
subjects affected / exposed	2 / 12 (16.67%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	2	0	0
Neck pain			
subjects affected / exposed	0 / 12 (0.00%)	1 / 14 (7.14%)	0 / 13 (0.00%)
occurrences (all)	0	2	0
Osteoporosis			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Osteoarthritis			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Dain in extremity			
subjects affected / exposed	1 / 12 (8.33%)	1 / 14 (7.14%)	1 / 13 (7.69%)
occurrences (all)	1	2	2
Tendonitis			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Bacterial infection			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
	Ū	Ū	0
Bronchitis			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Gastroenteritis			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Gastroenteritis viral subjects affected / exposed	0 / 12 /0 000/ )	0 / 14 (0 000/)	0 / 12 /0 000/ )
	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
	U	U	U
Influenza			

subjects affected / exposed	0 / 12 (0.00%)	1 / 14 (7.14%)	0 / 13 (0.00%)
occurrences (all)	0	2	0
Nasopharyngitis			
subjects affected / exposed	1 / 12 (8.33%)	2 / 14 (14.29%)	1 / 13 (7.69%)
occurrences (all)	1	1	1
Pharyngitis			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	1 / 13 (7.69%)
occurrences (all)	0	0	1
Respiratory tract infection			
subjects affected / exposed	0 / 12 (0.00%)	1 / 14 (7.14%)	0 / 13 (0.00%)
occurrences (all)	0	1	0
Rhinitis			
subjects affected / exposed	0 / 12 (0.00%)	1 / 14 (7.14%)	0 / 13 (0.00%)
occurrences (all)	0	1	0
Salpingo-oophoritis			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	1 / 13 (7.69%)
occurrences (all)	0	0	1
Upper respiratory tract infection			
subjects affected / exposed	0 / 12 (0.00%)	2 / 14 (14.29%)	0 / 13 (0.00%)
occurrences (all)	0	2	0
Viral upper respiratory tract infection			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Viral infection			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Sinusitis			
subjects affected / exposed	0 / 12 (0.00%)	0 / 14 (0.00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Acute tonsillitic			
subjects affected / exposed	0 / 12 (0 00%)	0 / 14 (0 00%)	0 / 13 (0.00%)
occurrences (all)	0	0	0
Motabolicm and nutrition disorders			
Hyperglycaemia			
subjects affected / exposed	0 / 12 (0.00%)	1 / 14 (7.14%)	0 / 13 (0.00%)
occurrences (all)	0	1	0
	-		

Non-serious adverse events	Cohort 2 SFU	Cohort 3 SFU	Cohort 4 SFU
Total subjects affected by non-serious			
adverse events			
Subjects affected / exposed	12 / 14 (85.71%)	8 / 14 (57.14%)	4/11(36.36%)
unspecified (incl cysts and polyps)			
Pituitary tumour recurrent			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	1 / 11 (9.09%)
occurrences (all)	0	0	1
General disorders and administration site conditions			
Asthenia			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Fatigue			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Chest pain			
subjects affected / exposed	1 / 14 (7.14%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	1	0	0
Exercise tolerance decreased			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Face oedema			
subjects affected / exposed	1 / 14 (7 14%)	0 / 14 (0 00%)	0 / 11 (0 00%)
occurrences (all)	1	0	0
	T	0	0
Injection site atrophy			
subjects affected / exposed	5 / 14 (35.71%)	3 / 14 (21.43%)	1 / 11 (9.09%)
occurrences (all)	8	9	1
Injection site erythema			
subjects affected / exposed	1 / 14 (7.14%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	1	0	0
Injection site baematoma			
subjects affected / exposed	1 / 14 (7 140%)	0 / 14 (0 00%)	0 / 11 (0 00%)
occurrences (all)	· / · · · (/ · · · · / / / / / / / / / /	~	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
	L	U	U
Injection site induration			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0

Injection site nodule			
subjects affected / exposed	1 / 14 (7.14%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	1	0	0
Injection site pain			
subjects affected / exposed	0 / 14 (0.00%)	1 / 14 (7.14%)	1 / 11 (9.09%)
occurrences (all)	0	2	2
Injection site pruritus			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Malaise			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Oedema peripheral			- / / // \
subjects affected / exposed	1 / 14 (7.14%)	1 / 14 (7.14%)	0 / 11 (0.00%)
occurrences (all)	1	1	0
Oedema			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	1 / 11 (9.09%)
occurrences (all)	0	0	1
Pyrexia			
subjects affected / exposed	1 / 14 (7.14%)	1 / 14 (7.14%)	0 / 11 (0.00%)
occurrences (all)	1	1	0
Immune system disorders			
Hypersensitivity			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	, , ,	, , , ,
	0	0	0
Reproductive system and breast disorders			
Dysmenorrhoea			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	1 / 11 (9.09%)
occurrences (all)	0	0	1
Respiratory, thoracic and mediastinal disorders			
Oropharyngeal pain			
subjects affected / exposed	2 / 14 (14.29%)	1 / 14 (7.14%)	0 / 11 (0.00%)
occurrences (all)	2	1	0
Cough			
- subjects affected / exposed	1 / 14 (7.14%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	1	0	0
	1	U	0

Pharyngeal erythema			
subjects affected / exposed	1 / 14 (7.14%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	1	0	0
	Ĩ	0	0
Rhinitis allergic			
subjects affected / exposed	0 / 14 (0.00%)	1 / 14 (7.14%)	0 / 11 (0.00%)
occurrences (all)	0	1	0
Psychiatric disorders			
Food aversion			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Anviety			
subjects affected / exposed	1 / 1/ (7 1/1%)	0 / 1/ (0 00%)	0 / 11 (0 00%)
	1/14(7.1470)	0 / 14 (0.00 %)	0 / 11 (0.00 /0)
	1	0	0
Investigations			
Alanine aminotransferase increased			
subjects affected / exposed	1 / 14 (7.14%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	1	0	0
Aspartate aminotransferase			
subjects affected / exposed	1 / 14 (7 1404)	0 / 14 (0 00%)	0 / 11 (0 00%)
	1/14(7.14%)	0 / 14 (0.00%)	0 / 11 (0.00%)
	1	0	0
Blood pressure increased			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
	Ŭ	Ū	Ū
Thyroxine free decreased			
subjects affected / exposed	2 / 14 (14.29%)	1 / 14 (7.14%)	0 / 11 (0.00%)
occurrences (all)	2	1	0
Thyroxine increased			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
White blood coll count decreased			
subjects affected / exposed	0 / 14 /0 000/ )	0 / 14 /0 000/ )	0 / 11 /0 000/ )
	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / II (0.00%)
	0	0	0
Weight increased			
subjects affected / exposed	0 / 14 (0.00%)	1 / 14 (7.14%)	0 / 11 (0.00%)
occurrences (all)	0	, (,	0
	U U	Ŧ	U
Blood lactate dehydrogenase increased			

subjects affected / exposed	1 / 14 (7.14%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	1	0	0
		_	-
Injury, poisoning and procedural complications			
Animal bite			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Cardiac disorders			
Sinus bradycardia			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Palpitations			
subjects affected / exposed	2 / 14 (14.29%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)			0
	۷.	0	0
Nervous system disorders			
Headache			
subjects affected / exposed	2 / 14 (14.29%)	2 / 14 (14.29%)	0 / 11 (0.00%)
occurrences (all)	2	3	0
Hypoaesthesia			
subjects affected / exposed	1 / 14 (7.14%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	1	0	0
Paraesthesia			
subjects affected / exposed	1 / 1/ (7 1/%)	0 / 14 (0 00%)	0 / 11 (0 00%)
	1 / 14 (7.14%)	0 / 14 (0.00%)	0 / 11 (0.00%)
	2	0	0
Syncope			
subjects affected / exposed	1 / 14 (7.14%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	1	0	0
Blood and lymphatic system disorders			
Anaemia			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Iron deficiency anaemia			
subjects affected / exposed	0 / 14 /0 000/ )		
	0/14(0.00%)	1 / 14 (7.14%)	U / II (U.UU%)
occurrences (all)	0	1	0
Lymphadenopathy			
subjects affected / exposed	1 / 14 (7.14%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	2	0	0

Ear and labyrinth disorders			
Tinnitus			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Vertigo			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Ear pain			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Eye disorders			
Blepharospasm			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Conjunctivitis			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Eye pain			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Visual impairment			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Gastrointestinal disorders			
Abdominal pain			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
-	-	0	-

subjects affected / exposed	2 / 14 (14.29%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	2	0	0
Dyspepsia			
subjects affected / exposed	1 / 14 (7.14%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	1	0	0
Gastrooesophageal reflux disease			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Inguinal hernia			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Nausea			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Toothache			
subjects affected / exposed	1 / 14 (7.14%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	1	0	0
Vomiting			
subjects affected / exposed	1 / 14 (7.14%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	1	0	0
Gastrointestinal infection			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	1 / 11 (9.09%)
occurrences (all)	0	0	1
Skin and subcutaneous tissue disorders			
Acne			
subjects affected / exposed	2 / 14 (14.29%)	2 / 14 (14.29%)	0 / 11 (0.00%)
occurrences (all)	3	2	0
Dermatitis atopic			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Blister			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	1 / 11 (9.09%)
occurrences (all)	0	0	1
Diabetic dermopathy			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0

Dry skin			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Dyshidrosis			
subjects affected / exposed	0 / 14 (0 00%)	0 / 14 (0 00%)	0 / 11 (0 00%)
	0 / 1 + (0.00 /0)	0 / 14 (0.00 /0)	0 / 11 (0.00 /0)
	U	U	U
Eczema			
subjects affected / exposed	1 / 14 (7.14%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	1	0	0
Pruritus			
subjects affected / exposed	1 / 14 (7.14%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	1	0	0
	L	0	0
Rash			
subjects affected / exposed	0 / 14 (0.00%)	1 / 14 (7.14%)	0 / 11 (0.00%)
occurrences (all)	0	1	0
Renal and urinary disorders			
Renal colic			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Endocrine disorders			
Hypercorticoidism			
subjects affected / exposed	0 / 14 (0.00%)	1 / 14 (7.14%)	0 / 11 (0.00%)
occurrences (all)	0	1	0
Hyperthyroidism			
subjects affected / exposed	0 / 14 (0.00%)	1 / 14 (7.14%)	0 / 11 (0.00%)
occurrences (all)	0	1	0
Hypothyroidism			
	1 / 14 (7.14%)	1 / 14 (7.14%)	0 / 11 (0.00%)
occurrences (all)	1	1	0
Adrenal insufficiency			
subjects affected / exposed	1 / 14 (7.14%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	, , , ,	0	0
	۷.	U	U
Musculoskeletal and connective tissue disorders			
Arthralgia			
subjects affected / exposed	1 / 14 (7.14%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	1	0	0

Back pain			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Bone pain			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Limb discomfort			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Muscle spasms			
subjects affected / exposed	1 / 14 (7.14%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	1	0	0
Myalgia			
subjects affected / exposed	1 / 14 (7.14%)	0 / 14 (0.00%)	1 / 11 (9.09%)
occurrences (all)	1	0	1
Neck pain			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Osteoporosis			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Osteoarthritis			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Pain in extremity			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Tendonitis			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Infections and infestations			
Bacterial infection			
subjects affected / exposed	1 / 14 (7.14%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	1	0	0
Bronchitis			

subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Gastroenteritis			
subjects affected / exposed	0 / 14 (0.00%)	1 / 14 (7.14%)	0 / 11 (0.00%)
occurrences (all)	0	1	0
Gastroenteritis viral			
subjects affected / exposed	0 / 14 (0.00%)	1 / 14 (7.14%)	0 / 11 (0.00%)
occurrences (all)	0	1	0
Influenza			
subjects affected / exposed	1 / 14 (7.14%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	1	0	0
Nasopharyngitis			
subjects affected / exposed	2 / 14 (14.29%)	1 / 14 (7.14%)	0 / 11 (0.00%)
occurrences (all)	2	1	0
Pharyngitis			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	1 / 11 (9.09%)
occurrences (all)	0	0	2
Respiratory tract infection			
subjects affected / exposed	2 / 14 (14.29%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	4	0	0
Rhinitis			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Salpingo-oophoritis			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Upper respiratory tract infection			
subjects affected / exposed	0 / 14 (0.00%)	1 / 14 (7.14%)	1 / 11 (9.09%)
occurrences (all)	0	2	1
Viral upper respiratory tract infection			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Viral infection			
subjects affected / exposed	1 / 14 (7.14%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	1	0	0
Sinusitis			

subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0
Acute tonsillitis		0 / 14 /0 000/ )	0 / 11 /0 000/ )
Subjects directed / exposed	1 / 14 (7.14%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	1	0	0
Metabolism and nutrition disorders			
Hyperglycaemia			
subjects affected / exposed	0 / 14 (0.00%)	0 / 14 (0.00%)	0 / 11 (0.00%)
occurrences (all)	0	0	0

Non-serious adverse events	Cohort 5 SFU		
Total subjects affected by non-serious adverse events			
subjects affected / exposed	5 / 14 (35.71%)		
Neoplasms benign, malignant and unspecified (incl cysts and polyps)			
Pituitary tumour recurrent			
subjects affected / exposed	0 / 14 (0.00%)		
occurrences (all)	0		
General disorders and administration			
subjects affected / exposed			
Subjects anected / exposed	1 / 14 (7.14%)		
occurrences (all)	1		
Fatique			
subjects affected / exposed	1 / 1/ (7 1/%)		
	1/14(7.1470)		
	1		
Chest pain			
subjects affected / exposed	0 / 14 (0.00%)		
occurrences (all)	0		
Exercise tolerance decreased			
subjects affected / exposed	1 / 14 (7.14%)		
occurrences (all)	1		
Face oedema			
subjects affected / exposed	0 / 14 (0.00%)		
occurrences (all)	0		
Injection site atrophy			
subjects affected / exposed	0 / 14 /0 000/ )		
	0 / 14 (0.00%)		
occurrences (all)	0		
l	l		

Injection site erythema		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Injection site haematoma		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Injection site induration		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Injection site nodule		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Injection site pain		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Injection site pruritus		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Malaise		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Oedema peripheral		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Oedema	0 / 1 / (0 000/)	
	0 / 14 (0.00%)	
	0	
Pyrexia		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Immune system disorders		
Hypersensitivity		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Reproductive system and breast disorders		

Dysmenorrhoea		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Respiratory, thoracic and mediastinal		
disorders Orophanyngoal pain		
subjects affected / exposed	0 / 14 /0 000/ )	
	0 / 14 (0.00%)	
	0	
Cough		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Pharyngeal erythema		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Rhinitis allergic		
subjects affected / exposed	0 / 14 (0 00%)	
occurrences (all)	0 / 14 (0.00 /0)	
	U	
Psychiatric disorders		
Food aversion		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Anxiety		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
	_	
Investigations		
Alanine aminotransferase increased		
	0 / 14 (0.00%)	
occurrences (all)	0	
Aspartate aminotransferase increased		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Blood pressure increased		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Thyroxine free decreased		
subjects affected / exposed	0 / 14 (0 00%)	
	U	

Thyroxine increased		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
White blood cell count decreased		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Weight increased		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Blood lactate dehydrogenase increased		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Injury, poisoning and procedural complications		
Animal bite		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Cardiac disorders		
Sinus bradycardia		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Palpitations		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Nervous system disorders		
subjects affected / exposed	2/14/14 2004)	
	2 / 14 (14.29%)	
	1	
Hypoaesthesia		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Paraesthesia		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Syncope		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)		

Blood and lymphatic system disorders		
Anaemia		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
	0	
Iron deficiency anaemia		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0, 1, (0,000,0)	
	U	
l ymphadenopathy		
subjects affected / exposed	0 / 14 (0 00%)	
	0	
Ear and labyrinth disorders		
Tinnitus		
subjects affected / exposed	0 / 14 (0 00%)	
	0 / 14 (0.00 /0)	
	0	
Vertigo		
subjects affected / exposed	0 / 1 / (0 000/)	
Subjects anected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Ear pain		
subjects affected / exposed	1 / 14 (7.14%)	
occurrences (all)	1	
Eye disorders		
Biepnarospasm		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Conjunctivitis		
subjects affected / exposed	0 / 14 (0.00%)	
subjects affected / exposed occurrences (all)	0 / 14 (0.00%) 0	
subjects affected / exposed occurrences (all)	0 / 14 (0.00%) 0	
subjects affected / exposed occurrences (all) Eye pain	0 / 14 (0.00%) 0	
subjects affected / exposed occurrences (all) Eye pain subjects affected / exposed	0 / 14 (0.00%) 0 1 / 14 (7.14%)	
subjects affected / exposed occurrences (all) Eye pain subjects affected / exposed occurrences (all)	0 / 14 (0.00%) 0 1 / 14 (7.14%) 1	
subjects affected / exposed occurrences (all) Eye pain subjects affected / exposed occurrences (all)	0 / 14 (0.00%) 0 1 / 14 (7.14%) 1	
subjects affected / exposed occurrences (all) Eye pain subjects affected / exposed occurrences (all) Visual impairment	0 / 14 (0.00%) 0 1 / 14 (7.14%) 1	
subjects affected / exposed occurrences (all) Eye pain subjects affected / exposed occurrences (all) Visual impairment subjects affected / exposed	0 / 14 (0.00%) 0 1 / 14 (7.14%) 1 1 / 14 (7.14%)	
subjects affected / exposed occurrences (all) Eye pain subjects affected / exposed occurrences (all) Visual impairment subjects affected / exposed occurrences (all)	0 / 14 (0.00%) 0 1 / 14 (7.14%) 1 1 / 14 (7.14%) 1	
subjects affected / exposed occurrences (all) Eye pain subjects affected / exposed occurrences (all) Visual impairment subjects affected / exposed occurrences (all)	0 / 14 (0.00%) 0 1 / 14 (7.14%) 1 1 / 14 (7.14%) 1	
subjects affected / exposed occurrences (all) Eye pain subjects affected / exposed occurrences (all) Visual impairment subjects affected / exposed occurrences (all) Gastrointestinal disorders	0 / 14 (0.00%) 0 1 / 14 (7.14%) 1 1 / 14 (7.14%) 1	
subjects affected / exposed occurrences (all) Eye pain subjects affected / exposed occurrences (all) Visual impairment subjects affected / exposed occurrences (all) Gastrointestinal disorders Abdominal pain	0 / 14 (0.00%) 0 1 / 14 (7.14%) 1 1 / 14 (7.14%) 1	
subjects affected / exposed occurrences (all) Eye pain subjects affected / exposed occurrences (all) Visual impairment subjects affected / exposed occurrences (all) Gastrointestinal disorders Abdominal pain subjects affected / exposed	0 / 14 (0.00%) 0 1 / 14 (7.14%) 1 1 / 14 (7.14%) 1 0 / 14 (0.00%)	
subjects affected / exposed occurrences (all) Eye pain subjects affected / exposed occurrences (all) Visual impairment subjects affected / exposed occurrences (all) Gastrointestinal disorders Abdominal pain subjects affected / exposed occurrences (all)	0 / 14 (0.00%) 0 1 / 14 (7.14%) 1 1 / 14 (7.14%) 1 0 / 14 (0.00%) 0	

Abdominal discomfort		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Abdominal distension		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Abdominal pain upper		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Diarrhoea		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Dyspepsia		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Gastrooesophageal reflux disease		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Inguinal hernia		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Nausea		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Toothache		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Vomiting		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Gastrointestinal infection subjects affected / exposed	0 / 14 (0 00%)	
occurrences (all)	0 / 14 (0.00%)	
	U	
Skin and subcutaneous tissue disorders		
Acne		

subjects affected / exposed	0 / 14 (0.00%)		
occurrences (all)	0		
	0		
Dermatitis atopic			
subjects affected / exposed	0 / 14 (0.00%)		
occurrences (all)	0		
Blister			
subjects affected / exposed	0 / 14 (0.00%)		
occurrences (all)	0		
Diabetic dermopatny			
subjects anected / exposed	1 / 14 (7.14%)		
occurrences (all)	2		
Drv skin			
subjects affected / exposed	1 / 14 (7 14%)		
	2		
Dyshidrosis			
subjects affected / exposed	1 / 14 (7.14%)		
occurrences (all)	1		
	1		
Eczema			
subjects affected / exposed	0 / 14 (0.00%)		
occurrences (all)	0		
Pruritus			
subjects affected / exposed	0 / 14 (0.00%)		
occurrences (all)	0		
Rash			
subjects affected / exposed	0 / 14 (0.00%)		
	0 / 14 (0.00 %)		
	0		
Renal and urinary disorders			
Renal colic			
subjects affected / exposed	0 / 14 (0.00%)		
occurrences (all)	0		
Endocrine disorders			
Hypercorticoidism			
subjects anected / exposed	0 / 14 (0.00%)		
occurrences (all)	0		
Hyperthyroidicm			
	I	I	

subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Hypothyroidism		
subjects affected / exposed	0 / 14 (0.00%)	
occurrences (all)	0	
Adrenal insufficiency		
subjects affected / exposed	1 / 14 (7.14%)	
occurrences (all)	4	

subjects affected / exposed	1 / 14 (7.14%)		
occurrences (all)	1		
Pain in extremity			
subjects affected / exposed	0 / 14 (0.00%)		
occurrences (all)	0		
Tendonitis			
subjects affected / exposed	0 / 14 (0.00%)		
occurrences (all)	0		
Infections and infestations			
Bacterial infection			
subjects affected / exposed	0 / 14 (0.00%)		
occurrences (all)	0		
Bronchitis			
subjects affected / exposed	1 / 14 (7.14%)		
occurrences (all)	2		
Gastroenteritis			
subjects affected / exposed	0 / 14 (0.00%)		
occurrences (all)	0		
Gastroenteritis viral			
subjects affected / exposed	0 / 14 (0 00%)		
occurrences (all)	0		
Influenza			
subjects affected / exposed	0 / 14 (0 00%)		
	0 / 14 (0.00%)		
	0		
Nasopharyngitis			
subjects affected / exposed	1 / 14 (7.14%)		
occurrences (all)	1		
Pharyngitis			
subjects affected / exposed	0 / 14 (0.00%)		
occurrences (all)	0		
Respiratory tract infection			
subjects affected / exposed	0 / 14 (0 00%)		
occurrences (all)	0		
Rhinitis			
subjects affected / exposed	0 / 14 (0.00%)		
occurrences (all)	0		
		1	
Salpingo-oophoritis subjects affected / exposed occurrences (all)	0 / 14 (0.00%) 0		
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Upper respiratory tract infection			
subjects affected / exposed	0 / 14 (0.00%)		
occurrences (all)	0		
Viral upper respiratory tract infection			
subjects affected / exposed	0 / 14 (0.00%)		
occurrences (all)	0		
Viral infection			
subjects affected / exposed	0 / 14 (0.00%)		
occurrences (all)	0		
Sinusitis			
subjects affected / exposed	0 / 14 (0.00%)		
occurrences (all)	0		
Acute tonsillitis			
subjects affected / exposed	0 / 14 (0.00%)		
occurrences (all)	0		
Metabolism and nutrition disorders			
Hyperglycaemia			
subjects affected / exposed	0 / 14 (0.00%)		
occurrences (all)	0		

## Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

Date	Amendment
12 March 2012	The protocol was revised to reflect the fact that the run-in period had been completed. The number and timing of blood samples for PK/PD analysis was revised Cohorts 1-4. The protocol was amended to address the change of the dose within 24-week- dose finding period after data obtained from single dose PK/PD run-in period. However, this change is addressed only to Cohorts 1-4. Pregnancy and breast-feeding were added to the exclusion criteria and it was clarified that fertile females had to use contraceptives for the duration of study and 20 days after the last dose of study medication. Cohort 5 SFU dose was revised from starting at 0.02-0.04 HM10560A to starting at 0.03 mg/kg EW. The protocol was amended to expand and clarify details of the Interim Analysis and the Final Analysis. Typographic, administrative and clarification changes were also made.
04 June 2013	Raised the upper age permitted for inclusion from 60 to 65 years. Changed methods for measurement of IGF-I and IGFBP3 with addition of IDS iSYS assay. Clarified that in case of severe or serious lipoatrophy a dermatologist should be consulted. Typographic and administrative changes were also made.
25 March 2014	Added a new interim analysis to be performed upon completion of Week 12 Visit of the 24-week-dose finding period.
Notes:	

## Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported