



## Clinical trial results:

### A Phase IIb, Randomized, Placebo-Controlled, Dose-Finding Clinical Trial to Study the Safety and Efficacy of MK-8237 Using an Environmental Exposure Chamber in Subjects with House Dust Induced Allergic Rhinitis/Rhinoconjunctivitis

#### Summary

EudraCT number	2012-001855-38
Trial protocol	AT
Global end of trial date	27 August 2013

#### Results information

Result version number	v2 (current)
This version publication date	05 January 2017
First version publication date	28 January 2015
Version creation reason	

#### Trial information

##### Trial identification

Sponsor protocol code	P07627
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##### Additional study identifiers

ISRCTN number	-
ClinicalTrials.gov id (NCT number)	NCT01644617
WHO universal trial number (UTN)	-
Other trial identifiers	P07627: SCH 900237, MK-8237-003: Merck Registration

Notes:

#### Sponsors

Sponsor organisation name	Merck Sharp & Dohme Corp.
Sponsor organisation address	2000 Galloping Hill Road, Kenilworth, NJ, United States, 07033
Public contact	Clinical Trials Disclosure, Merck Sharp & Dohme Corp., ClinicalTrialsDisclosure@merck.com
Scientific contact	Clinical Trials Disclosure, Merck Sharp & Dohme Corp., ClinicalTrialsDisclosure@merck.com

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:

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**Results analysis stage**

Analysis stage	Final
Date of interim/final analysis	27 August 2013
Is this the analysis of the primary completion data?	Yes
Primary completion date	16 August 2013
Global end of trial reached?	Yes
Global end of trial date	27 August 2013
Was the trial ended prematurely?	No

Notes:

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**General information about the trial**

Main objective of the trial:

To evaluate the dose-related efficacy of MK-8237 sublingual house dust mite (HDM) tablet versus placebo in the treatment of HDM-induced rhinitis based on the average total nasal symptom score (TNSS) determined during the chamber challenge session at Week 24.

Protection of trial subjects:

The study was conducted in conformance with Good Clinical Practice standards and applicable country and/or local statutes and regulations regarding ethical committee review, informed consent, and the protection of human subjects participating in biomedical research.

Background therapy: -

Evidence for comparator: -

Actual start date of recruitment	01 October 2012
Long term follow-up planned	No
Independent data monitoring committee (IDMC) involvement?	No

Notes:

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**Population of trial subjects**

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**Subjects enrolled per country**

Country: Number of subjects enrolled	Austria: 124
Worldwide total number of subjects	124
EEA total number of subjects	124

Notes:

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**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)	124
From 65 to 84 years	0
85 years and over	0

## Subject disposition

### Recruitment

Recruitment details:

Participants were recruited from one study site in Austria.

### Pre-assignment

Screening details:

This study enrolled male and female participants, 18 years of age and older, with a history of allergic rhinitis/rhinoconjunctivitis to house dust of 1-year duration or more (with or without asthma).

### Period 1

Period 1 title	Treatment (overall period)
Is this the baseline period?	Yes
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Investigator, Monitor, Subject

### Arms

Are arms mutually exclusive?	Yes
<b>Arm title</b>	MK-8237 6 DU

Arm description:

Participants receive MK-8237 6 Development Units (DU) sublingual tablets once daily (QD), preferably at the same time each day, for 24 weeks.

Arm type	Experimental
Investigational medicinal product name	MK-8237 6 DU sublingual tablets
Investigational medicinal product code	
Other name	SCH 900237
Pharmaceutical forms	Sublingual tablet
Routes of administration	Sublingual use

Dosage and administration details:

One MK-8237 6 DU sublingual tablet once daily for 24 weeks

<b>Arm title</b>	MK-8237 12 DU
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Arm description:

Participants receive MK-8237 12 DU sublingual tablets, QD, preferably at the same time each day, for 24 weeks.

Arm type	Experimental
Investigational medicinal product name	MK-8237 12 DU sublingual tablets
Investigational medicinal product code	
Other name	SCH 900237
Pharmaceutical forms	Sublingual tablet
Routes of administration	Sublingual use

Dosage and administration details:

One MK-8237 12 DU sublingual tablet once daily for 24 weeks

<b>Arm title</b>	Placebo
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Arm description:

Participants receive Placebo sublingual tablets, QD, preferably at the same time each day, for 24 weeks.

Arm type	Placebo
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Investigational medicinal product name	Placebo sublingual tablets
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Sublingual tablet
Routes of administration	Sublingual use

Dosage and administration details:

Placebo sublingual tablets once daily for 24 weeks

<b>Number of subjects in period 1</b>	MK-8237 6 DU	MK-8237 12 DU	Placebo
Started	41	42	41
Completed	36	36	34
Not completed	5	6	7
Consent withdrawn by subject	4	3	1
Adverse event, non-fatal	-	3	6
Lost to follow-up	1	-	-

## Baseline characteristics

### Reporting groups

Reporting group title	MK-8237 6 DU
Reporting group description: Participants receive MK-8237 6 Development Units (DU) sublingual tablets once daily (QD), preferably at the same time each day, for 24 weeks.	
Reporting group title	MK-8237 12 DU
Reporting group description: Participants receive MK-8237 12 DU sublingual tablets, QD, preferably at the same time each day, for 24 weeks.	
Reporting group title	Placebo
Reporting group description: Participants receive Placebo sublingual tablets, QD, preferably at the same time each day, for 24 weeks.	

Reporting group values	MK-8237 6 DU	MK-8237 12 DU	Placebo
Number of subjects	41	42	41
Age categorical Units: Subjects			
In utero	0	0	0
Preterm newborn infants (gestational age < 37 wks)	0	0	0
Newborns (0-27 days)	0	0	0
Infants and toddlers (28 days-23 months)	0	0	0
Children (2-11 years)	0	0	0
Adolescents (12-17 years)	0	0	0
Adults (18-64 years)	41	42	41
From 65-84 years	0	0	0
85 years and over	0	0	0
Gender categorical Units: Subjects			
Female	30	19	17
Male	11	23	24

Reporting group values	Total		
Number of subjects	124		
Age categorical Units: Subjects			
In utero	0		
Preterm newborn infants (gestational age < 37 wks)	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)	124		
From 65-84 years	0		
85 years and over	0		

Gender categorical			
Units: Subjects			
Female	66		
Male	58		

## End points

### End points reporting groups

Reporting group title	MK-8237 6 DU
Reporting group description: Participants receive MK-8237 6 Development Units (DU) sublingual tablets once daily (QD), preferably at the same time each day, for 24 weeks.	
Reporting group title	MK-8237 12 DU
Reporting group description: Participants receive MK-8237 12 DU sublingual tablets, QD, preferably at the same time each day, for 24 weeks.	
Reporting group title	Placebo
Reporting group description: Participants receive Placebo sublingual tablets, QD, preferably at the same time each day, for 24 weeks.	

### Primary: Average Total Nasal Symptom Score (TNSS) During Environmental Exposure Chamber (EEC) Challenge Session at Week 24

End point title	Average Total Nasal Symptom Score (TNSS) During Environmental Exposure Chamber (EEC) Challenge Session at Week 24
End point description: TNSS was the total score for 4 nasal symptoms (itchy nose, blocked nose, runny nose and sneezing), each scored on a 4-point scale (0=No symptoms to 3=Severe symptoms). Total TNSS ranged from 0 to 12 points, with a higher score indicating more severe nasal symptoms. The end point was calculated based on participant diary entries over the last 4 hours of the EEC challenge session at Week 24.	
End point type	Primary
End point timeframe: Week 24	

End point values	MK-8237 6 DU	MK-8237 12 DU	Placebo	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	36 <sup>[1]</sup>	36 <sup>[2]</sup>	34 <sup>[3]</sup>	
Units: Score on a Scale				
least squares mean (confidence interval 95%)	5.47 (4.55 to 6.39)	3.83 (2.94 to 4.72)	7.45 (6.57 to 8.33)	

Notes:

[1] - Full Analysis Set (FAS): Took  $\geq 1$  study drug dose and had  $\geq 1$  post-randomization efficacy measurement.

[2] - FAS: Took  $\geq 1$  study drug dose and had  $\geq 1$  post-randomization efficacy measurement.

[3] - FAS: Took  $\geq 1$  study drug dose and had  $\geq 1$  post-randomization efficacy measurement.

### Statistical analyses

Statistical analysis title	Difference in Least Squares (LS) Means at Week 24
Statistical analysis description: Difference in TNSS LS means at Week 24: MK-8237 6 DU vs. Placebo - Analysis via analysis of covariance (ANCOVA) with treatment and Baseline end point score as fixed effects, and adjusted for different error variation for each treatment group. Treatment difference relative to Placebo was calculated by (MK-8237-Placebo)/Placebo * 100%. Confidence intervals were calculated by the	

bootstrap method.

Comparison groups	MK-8237 6 DU v Placebo
Number of subjects included in analysis	70
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.003
Method	ANCOVA
Parameter estimate	Difference in LS Means
Point estimate	-1.98
Confidence interval	
level	95 %
sides	2-sided
lower limit	-3.24
upper limit	-0.72

<b>Statistical analysis title</b>	Difference in LS Means at Week 24
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Statistical analysis description:

Difference in TNSS LS means at Week 24: MK-8237 12 DU vs. Placebo - Analysis via ANCOVA with treatment and Baseline endpoint score as fixed effects, and adjusted for different error variation for each treatment group. Treatment difference relative to Placebo was calculated by (MK-8237-Placebo)/Placebo \* 100%. Confidence intervals were calculated by the bootstrap method.

Comparison groups	MK-8237 12 DU v Placebo
Number of subjects included in analysis	70
Analysis specification	Pre-specified
Analysis type	superiority
P-value	< 0.001
Method	ANCOVA
Parameter estimate	Difference in LS Means
Point estimate	-3.62
Confidence interval	
level	95 %
sides	2-sided
lower limit	-4.85
upper limit	-2.39

### **Secondary: Average Total Symptom Score (TSS [TNSS + TOSS]) During EEC Challenge Sessions at Weeks 8, 16 and 24**

End point title	Average Total Symptom Score (TSS [TNSS + TOSS]) During EEC Challenge Sessions at Weeks 8, 16 and 24
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End point description:

TSS was the sum of the TNSS and Total Ocular Symptom Score (TOSS). TOSS was the total of scores for 2 ocular symptom scores (gritty feeling/red/itchy eyes and watery eyes), each scored on a 4-point scale (0=No symptoms to 3=Severe symptoms; TOSS range: 0 to 6 points). Total TSS ranged from 0 to 18 points, with a higher score indicating more severe nasal and ocular symptoms. The end point was calculated based on participant diary entries over the last 4 hours of the EEC challenge sessions at Weeks 8, 16 and 24.

End point type	Secondary
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End point timeframe:

Week 8, Week 16, Week 24



End point values	MK-8237 6 DU	MK-8237 12 DU	Placebo	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	39 <sup>[4]</sup>	40 <sup>[5]</sup>	40 <sup>[6]</sup>	
Units: Score on a Scale				
least squares mean (confidence interval 95%)				
Week 8 (n=39, 40, 39)	7.65 (6.81 to 8.48)	6.51 (5.52 to 7.51)	8.48 (7.56 to 9.39)	
Week 16 (n=36, 39, 38)	7.21 (6.05 to 8.37)	5.95 (4.92 to 6.99)	8.58 (7.46 to 9.69)	
Week 24 (n=36, 36, 34)	6.62 (5.48 to 7.77)	4.43 (3.2 to 5.66)	9.27 (7.98 to 10.57)	

Notes:

[4] - FAS: Took  $\geq 1$  study drug dose and had  $\geq 1$  post-randomization efficacy measurement.

[5] - FAS: Took  $\geq 1$  study drug dose and had  $\geq 1$  post-randomization efficacy measurement.

[6] - FAS: Took  $\geq 1$  study drug dose and had  $\geq 1$  post-randomization efficacy measurement.

## Statistical analyses

Statistical analysis title	Difference in LS Means at Week 24
Statistical analysis description:	
Difference in TSS LS means at Week 24: MK-8237 6 DU vs. Placebo - Analysis via ANCOVA with treatment and Baseline end point score as fixed effects, and adjusted for different error variation for each treatment group. Treatment difference relative to Placebo was calculated by (MK-8237-Placebo)/Placebo * 100%. Confidence intervals were calculated by the bootstrap method. Number of participants included in analysis=70.	
Comparison groups	MK-8237 6 DU v Placebo
Number of subjects included in analysis	79
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.003
Method	ANCOVA
Parameter estimate	Difference in LS Means
Point estimate	-2.65
Confidence interval	
level	95 %
sides	2-sided
lower limit	-4.35
upper limit	-0.95

Statistical analysis title	Difference in LS Means at Week 24
Statistical analysis description:	
Difference in TSS LS means at Week 24: MK-8237 12 DU vs. Placebo - Analysis via ANCOVA with treatment and Baseline end point score as fixed effects, and adjusted for different error variation for each treatment group. Treatment difference relative to Placebo was calculated by (MK-8237-Placebo)/Placebo * 100%. Confidence intervals were calculated by the bootstrap method. Number of participants included in analysis=70.	
Comparison groups	MK-8237 12 DU v Placebo

Number of subjects included in analysis	80
Analysis specification	Pre-specified
Analysis type	superiority
P-value	< 0.001
Method	ANCOVA
Parameter estimate	Difference in LS Means
Point estimate	-4.84
Confidence interval	
level	95 %
sides	2-sided
lower limit	-6.59
upper limit	-3.09

<b>Statistical analysis title</b>	Difference in LS Means at Week 8
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Statistical analysis description:

Difference in TSS LS means at Week 8: MK-8237 6 DU vs. Placebo - Analysis via ANCOVA with treatment and Baseline end point score as fixed effects, and adjusted for different error variation for each treatment group. Treatment difference relative to Placebo was calculated by (MK-8237-Placebo)/Placebo \* 100%. Confidence intervals were calculated by the bootstrap method. Number of participants included in analysis=78.

Comparison groups	MK-8237 6 DU v Placebo
Number of subjects included in analysis	79
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.181
Method	ANCOVA
Parameter estimate	Difference in LS Means
Point estimate	-0.83
Confidence interval	
level	95 %
sides	2-sided
lower limit	-2.06
upper limit	0.4

<b>Statistical analysis title</b>	Difference in LS Means at Week 8
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Statistical analysis description:

Difference in TSS LS means at Week 8: MK-8237 12 DU vs. Placebo - Analysis via ANCOVA with treatment and Baseline end point score as fixed effects, and adjusted for different error variation for each treatment group. Treatment difference relative to Placebo was calculated by (MK-8237-Placebo)/Placebo \* 100%. Confidence intervals were calculated by the bootstrap method. Number of participants included in analysis=79.

Comparison groups	MK-8237 12 DU v Placebo
Number of subjects included in analysis	80
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.004
Method	ANCOVA
Parameter estimate	Difference in LS Means
Point estimate	-1.97

Confidence interval	
level	95 %
sides	2-sided
lower limit	-3.3
upper limit	-0.64

<b>Statistical analysis title</b>	Difference in LS Means at Week 16
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Statistical analysis description:

Difference in TSS LS means at Week 16: MK-8237 6 DU vs. Placebo - Analysis via ANCOVA with treatment and Baseline end point score as fixed effects, and adjusted for different error variation for each treatment group. Treatment difference relative to Placebo was calculated by (MK-8237-Placebo)/Placebo \* 100%. Confidence intervals were calculated by the bootstrap method. Number of participants included in analysis=74.

Comparison groups	MK-8237 6 DU v Placebo
Number of subjects included in analysis	79
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.091
Method	ANCOVA
Parameter estimate	Difference in LS Means
Point estimate	-1.37
Confidence interval	
level	95 %
sides	2-sided
lower limit	-2.96
upper limit	0.22

<b>Statistical analysis title</b>	Difference in LS Means at Week 16
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Statistical analysis description:

Difference in TSS LS means at Week 16: MK-8237 12 DU vs. Placebo - Analysis via ANCOVA with treatment and Baseline end point score as fixed effects, and adjusted for different error variation for each treatment group. Treatment difference relative to Placebo was calculated by (MK-8237-Placebo)/Placebo \* 100%. Confidence intervals were calculated by the bootstrap method. Number of participants included in analysis=77.

Comparison groups	MK-8237 12 DU v Placebo
Number of subjects included in analysis	80
Analysis specification	Pre-specified
Analysis type	superiority
P-value	< 0.001
Method	ANCOVA
Parameter estimate	Difference in LS Means
Point estimate	-2.62
Confidence interval	
level	95 %
sides	2-sided
lower limit	-4.12
upper limit	-1.13

## Secondary: Average Total Ocular Symptom Score (TOSS) During EEC Challenge Sessions at Weeks 8, 16 and 24

End point title	Average Total Ocular Symptom Score (TOSS) During EEC Challenge Sessions at Weeks 8, 16 and 24
End point description: TOSS was the total of scores for 2 ocular symptom scores (gritty feeling/red/itchy eyes and watery eyes), each scored on a 4-point scale (0=No symptoms to 3=Severe symptoms). Total TOSS ranged from 0 to 6 points, with a higher score indicating more severe ocular symptoms. The end point was calculated based on participant diary entries over the last 4 hours of the EEC challenge sessions at Weeks 8, 16 and 24.	
End point type	Secondary
End point timeframe: Week 8, Week 16, Week 24	

End point values	MK-8237 6 DU	MK-8237 12 DU	Placebo	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	39 <sup>[7]</sup>	40 <sup>[8]</sup>	40 <sup>[9]</sup>	
Units: Score on a Scale				
least squares mean (confidence interval 95%)				
Week 8 (n=39, 40, 39)	1.45 (0.68 to 1.53)	1.18 (0.86 to 1.5)	1.79 (1.36 to 2.22)	
Week 16 (n=36, 39, 38)	1.54 (1.08 to 1.83)	1.14 (0.72 to 1.55)	1.67 (1.22 to 2.12)	
Week 24 (n=36, 36, 34)	1.1 (1.05 to 2.03)	0.61 (0.21 to 1)	1.87 (1.35 to 2.4)	

Notes:

[7] - FAS: Took  $\geq 1$  study drug dose and had  $\geq 1$  post-randomization efficacy measurement.

[8] - FAS: Took  $\geq 1$  study drug dose and had  $\geq 1$  post-randomization efficacy measurement.

[9] - FAS: Took  $\geq 1$  study drug dose and had  $\geq 1$  post-randomization efficacy measurement.

## Statistical analyses

Statistical analysis title	Difference in LS Means at Week 24
Statistical analysis description: Difference in TOSS LS means at Week 24: MK-8237 6 DU vs. Placebo - Analysis via ANCOVA with treatment and Baseline end point score as fixed effects, and adjusted for different error variation for each treatment group. Treatment difference relative to Placebo was calculated by (MK-8237-Placebo)/Placebo * 100%. Confidence intervals were calculated by the bootstrap method. Number of participants included in analysis=70.	
Comparison groups	MK-8237 6 DU v Placebo
Number of subjects included in analysis	79
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.023
Method	ANCOVA
Parameter estimate	Difference in LS Means
Point estimate	-0.77

Confidence interval	
level	95 %
sides	2-sided
lower limit	-1.43
upper limit	-0.11

<b>Statistical analysis title</b>	Difference in LS Means at Week 24
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Statistical analysis description:

Difference in TOSS LS means at Week 24: MK-8237 12 DU vs. Placebo - Analysis via ANCOVA with treatment and Baseline end point score as fixed effects, and adjusted for different error variation for each treatment group. Treatment difference relative to Placebo was calculated by (MK-8237-Placebo)/Placebo \* 100%. Confidence intervals were calculated by the bootstrap method. Number of participants included in analysis=70.

Comparison groups	MK-8237 12 DU v Placebo
Number of subjects included in analysis	80
Analysis specification	Pre-specified
Analysis type	superiority
P-value	< 0.001
Method	ANCOVA
Parameter estimate	Difference in LS Means
Point estimate	-1.27
Confidence interval	
level	95 %
sides	2-sided
lower limit	-1.92
upper limit	-0.62

<b>Statistical analysis title</b>	Difference in LS Means at Week 8
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Statistical analysis description:

Difference in TOSS LS means at Week 8: MK-8237 6 DU vs. Placebo - Analysis via ANCOVA with treatment and Baseline end point score as fixed effects, and adjusted for different error variation for each treatment group. Treatment difference relative to Placebo was calculated by (MK-8237-Placebo)/Placebo \* 100%. Confidence intervals were calculated by the bootstrap method. Number of participants included in analysis=78.

Comparison groups	MK-8237 6 DU v Placebo
Number of subjects included in analysis	79
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.235
Method	ANCOVA
Parameter estimate	Difference in LS Means
Point estimate	-0.34
Confidence interval	
level	95 %
sides	2-sided
lower limit	-0.9
upper limit	0.22

<b>Statistical analysis title</b>	Difference in LS Means at Week 8
Statistical analysis description:	
Difference in TOSS LS means at Week 8: MK-8237 12 DU vs. Placebo - Analysis via ANCOVA with treatment and Baseline end point score as fixed effects, and adjusted for different error variation for each treatment group. Treatment difference relative to Placebo was calculated by (MK-8237-Placebo)/Placebo * 100%. Confidence intervals were calculated by the bootstrap method. Number of participants included in analysis=79.	
Comparison groups	MK-8237 12 DU v Placebo
Number of subjects included in analysis	80
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.023
Method	ANCOVA
Parameter estimate	Difference in LS Means
Point estimate	-0.61
Confidence interval	
level	95 %
sides	2-sided
lower limit	-1.14
upper limit	-0.09

<b>Statistical analysis title</b>	Difference in LS Means at Week 16
Statistical analysis description:	
Difference in TOSS LS means at Week 16: MK-8237 6 DU vs. Placebo - Analysis via ANCOVA with treatment and Baseline end point score as fixed effects, and adjusted for different error variation for each treatment group. Treatment difference relative to Placebo was calculated by (MK-8237-Placebo)/Placebo * 100%. Confidence intervals were calculated by the bootstrap method. Number of participants included in analysis=74.	
Comparison groups	MK-8237 6 DU v Placebo
Number of subjects included in analysis	79
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.691
Method	ANCOVA
Parameter estimate	Difference in LS Means
Point estimate	-0.13
Confidence interval	
level	95 %
sides	2-sided
lower limit	-0.79
upper limit	0.52

<b>Statistical analysis title</b>	Difference in LS Means at Week 16
Statistical analysis description:	
Difference in TOSS LS means at Week 16: MK-8237 12 DU vs. Placebo - Analysis via ANCOVA with	

treatment and Baseline end point score as fixed effects, and adjusted for different error variation for each treatment group. Treatment difference relative to Placebo was calculated by (MK-8237-Placebo)/Placebo \* 100%. Confidence intervals were calculated by the bootstrap method. Number of participants included in analysis=77.

Comparison groups	MK-8237 12 DU v Placebo
Number of subjects included in analysis	80
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.082
Method	ANCOVA
Parameter estimate	Difference in LS Means
Point estimate	-0.53
Confidence interval	
level	95 %
sides	2-sided
lower limit	-1.13
upper limit	0.07

### Secondary: Change From Baseline in House Dust Mite (HDM)-specific Immunoglobulin E (IgE) Levels at Week 8

End point title	Change From Baseline in House Dust Mite (HDM)-specific Immunoglobulin E (IgE) Levels at Week 8
End point description:	Participant IgE levels against Dermatophagoides pteronyssinus (D. pteronyssinus) and Dermatophagoides farinae (D. farinae) were measured using the Immunocap® assay at baseline and Week 8. IgE levels were expressed in Log 10 scale kilo units/Liter (kU/L). Mean Week 8 IgE levels were compared to the mean IgE levels at baseline. Analysis was based on the analysis of variance parametric (ANOVA) model with treatment as the fixed effect and reported as a least squares mean with 95% confidence interval.
End point type	Secondary
End point timeframe:	Baseline and Week 8

End point values	MK-8237 6 DU	MK-8237 12 DU	Placebo	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	39 <sup>[10]</sup>	40 <sup>[11]</sup>	40 <sup>[12]</sup>	
Units: Log 10 kU/L				
least squares mean (confidence interval 95%)				
D. pteronyssinus	0.5 (0.41 to 0.59)	0.63 (0.51 to 0.75)	0.08 (0.03 to 0.12)	
D. farinae	0.46 (0.38 to 0.55)	0.59 (0.48 to 0.7)	0.07 (0.03 to 0.11)	

Notes:

[10] - FAS: Took ≥1 study drug dose and had ≥1 post-randomization efficacy measurement.

[11] - FAS: Took ≥1 study drug dose and had ≥1 post-randomization efficacy measurement.

[12] - FAS: Took ≥1 study drug dose and had ≥1 post-randomization efficacy measurement.

### Statistical analyses

<b>Statistical analysis title</b>	Difference in LS Means - D. farinae
Statistical analysis description:	
Difference in LS means for D. farinae IgE levels: MK-8237 6 DU vs. Placebo - Analysis via ANOVA with treatment as fixed effect and adjusted for different error variation for each treatment group.	
Comparison groups	MK-8237 6 DU v Placebo
Number of subjects included in analysis	79
Analysis specification	Pre-specified
Analysis type	superiority
P-value	< 0.001
Method	ANOVA
Parameter estimate	Difference in LS Means
Point estimate	0.39
Confidence interval	
level	95 %
sides	2-sided
lower limit	0.3
upper limit	0.48

<b>Statistical analysis title</b>	Difference in LS Means - D. farinae
Statistical analysis description:	
Difference in LS means for D. farinae IgE levels: MK-8237 12 DU vs. Placebo - Analysis via ANOVA with treatment as fixed effect and adjusted for different error variation for each treatment group.	
Comparison groups	MK-8237 12 DU v Placebo
Number of subjects included in analysis	80
Analysis specification	Pre-specified
Analysis type	superiority
P-value	< 0.001
Method	ANOVA
Parameter estimate	Difference in LS Means
Point estimate	0.52
Confidence interval	
level	95 %
sides	2-sided
lower limit	0.41
upper limit	0.64

<b>Statistical analysis title</b>	Difference in LS Means - D. pteronyssinus
Statistical analysis description:	
Difference in LS means for D. pteronyssinus IgE levels: MK-8237 6 DU vs. Placebo - Analysis via ANOVA with treatment as fixed effect and adjusted for different error variation for each treatment group.	
Comparison groups	MK-8237 6 DU v Placebo



Number of subjects included in analysis	79
Analysis specification	Pre-specified
Analysis type	superiority
P-value	< 0.001
Method	ANOVA
Parameter estimate	Difference in LS Means
Point estimate	0.42
Confidence interval	
level	95 %
sides	2-sided
lower limit	0.33
upper limit	0.52

<b>Statistical analysis title</b>	Difference in LS Means - D. pteronyssinus
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Statistical analysis description:

Difference in LS means for D. pteronyssinus IgE levels: MK-8237 12 DU vs Placebo - Analysis via ANOVA with treatment as fixed effect and adjusted for different error variation for each treatment group.

Comparison groups	MK-8237 12 DU v Placebo
Number of subjects included in analysis	80
Analysis specification	Pre-specified
Analysis type	superiority
P-value	< 0.001
Method	ANOVA
Parameter estimate	Difference in LS Means
Point estimate	0.55
Confidence interval	
level	95 %
sides	2-sided
lower limit	0.43
upper limit	0.68

### **Secondary: Change From Baseline in HDM-specific Immunoglobulin G4 (IgG4) Levels at Week 8**

End point title	Change From Baseline in HDM-specific Immunoglobulin G4 (IgG4) Levels at Week 8
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End point description:

D. pteronyssinus and D. farinae serum IgG4 levels were measured using the Immuncap® assay at baseline and Week 8. IgG4 levels were expressed in Log 10 scale milligrams/Liter (mg/L). Mean Week 8 IgG4 levels were compared to the mean IgG4 levels at baseline. Analysis was based on the ANOVA model with treatment as the fixed effect and reported as a least squares mean with 95% confidence interval.

End point type	Secondary
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End point timeframe:

Baseline and Week 8

End point values	MK-8237 6 DU	MK-8237 12 DU	Placebo	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	39 <sup>[13]</sup>	40 <sup>[14]</sup>	40 <sup>[15]</sup>	
Units: Log 10 mg/L				
least squares mean (confidence interval 95%)				
D. pteronyssinus	0.19 (0.12 to 0.25)	0.23 (0.13 to 0.33)	0 (-0.01 to 0.01)	
D. farinae	0.24 (0.16 to 0.32)	0.32 (0.22 to 0.41)	-0.01 (-0.03 to 0.01)	

Notes:

[13] - FAS: Took  $\geq 1$  study drug dose and had  $\geq 1$  post-randomization efficacy measurement.

[14] - FAS: Took  $\geq 1$  study drug dose and had  $\geq 1$  post-randomization efficacy measurement.

[15] - FAS: Took  $\geq 1$  study drug dose and had  $\geq 1$  post-randomization efficacy measurement.

## Statistical analyses

Statistical analysis title	Difference in LS Means - D. pteronyssinus
Statistical analysis description:	
Difference in LS means in D. pteronyssinus IgG4 levels: MK-8237 6 DU vs. Placebo - Analysis via ANOVA with treatment as fixed effect and adjusted for different error variation for each treatment group.	
Comparison groups	MK-8237 6 DU v Placebo
Number of subjects included in analysis	79
Analysis specification	Pre-specified
Analysis type	superiority
P-value	< 0.001
Method	ANOVA
Parameter estimate	Difference in LS Means
Point estimate	0.19
Confidence interval	
level	95 %
sides	2-sided
lower limit	0.12
upper limit	0.25

Statistical analysis title	Difference in LS Means - D. pteronyssinus
Statistical analysis description:	
Difference in LS means in D. pteronyssinus IgG4 levels: MK-8237 12 DU vs. Placebo - Analysis via ANOVA with treatment as fixed effect and adjusted for different error variation for each treatment group.	
Comparison groups	MK-8237 12 DU v Placebo
Number of subjects included in analysis	80
Analysis specification	Pre-specified
Analysis type	superiority
P-value	< 0.001
Method	ANOVA
Parameter estimate	Difference in LS Means
Point estimate	0.23

Confidence interval	
level	95 %
sides	2-sided
lower limit	0.13
upper limit	0.33

<b>Statistical analysis title</b>	Difference in LS Means - D. farinae
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Statistical analysis description:

Difference in LS means in D. farinae IgG4 levels: MK-8237 6 DU vs. Placebo - Analysis via ANOVA with treatment as fixed effect and adjusted for different error variation for each treatment group.

Comparison groups	MK-8237 6 DU v Placebo
Number of subjects included in analysis	79
Analysis specification	Pre-specified
Analysis type	superiority
P-value	< 0.001
Method	ANOVA
Parameter estimate	Difference in LS Means
Point estimate	0.25
Confidence interval	
level	95 %
sides	2-sided
lower limit	0.16
upper limit	0.33

<b>Statistical analysis title</b>	Difference in LS Means - D. farinae
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Statistical analysis description:

Difference in LS means in D. farinae IgG4 levels: MK-8237 12 DU vs. Placebo - Analysis via ANOVA with treatment as fixed effect and adjusted for different error variation for each treatment group.

Comparison groups	MK-8237 12 DU v Placebo
Number of subjects included in analysis	80
Analysis specification	Pre-specified
Analysis type	superiority
P-value	< 0.001
Method	ANOVA
Parameter estimate	Difference in LS Means
Point estimate	0.32
Confidence interval	
level	95 %
sides	2-sided
lower limit	0.23
upper limit	0.42

## Secondary: Average TNSS During EEC Challenge Sessions at Weeks 8 and 16

End point title	Average TNSS During EEC Challenge Sessions at Weeks 8 and 16
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End point description:

TNSS was the total score for 4 nasal symptoms (itchy nose, blocked nose, runny nose and sneezing), each scored on a 4-point scale (0=No symptoms to 3=Severe symptoms). Total TNSS ranged from 0 to 12 points, with a higher score indicating more severe nasal symptoms. The end point was calculated based on participant diary entries over the last 4 hours of the EEC challenge sessions at Weeks 8 and 16.

End point type	Secondary
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End point timeframe:

Week 8, Week 16

End point values	MK-8237 6 DU	MK-8237 12 DU	Placebo	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	39 <sup>[16]</sup>	40 <sup>[17]</sup>	40 <sup>[18]</sup>	
Units: Score on a Scale				
least squares mean (confidence interval 95%)				
Week 8 (n=39, 40, 39)	6.16 (5.55 to 6.78)	5.34 (4.53 to 6.15)	6.71 (6.13 to 7.28)	
Week 16 (n=36, 39, 38)	5.67 (4.83 to 6.5)	4.82 (4.07 to 5.56)	6.9 (6.13 to 7.67)	

Notes:

[16] - FAS: Took ≥1 study drug dose and had ≥1 post-randomization efficacy measurement.

[17] - FAS: Took ≥1 study drug dose and had ≥1 post-randomization efficacy measurement.

[18] - FAS: Took ≥1 study drug dose and had ≥1 post-randomization efficacy measurement.

## Statistical analyses

<b>Statistical analysis title</b>	Difference in LS Means at Week 8
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Statistical analysis description:

Difference in TNSS LS means at Week 8: MK-8237 6 DU vs. Placebo - Analysis via ANCOVA with treatment and Baseline end point score as fixed effects, and adjusted for different error variation for each treatment group. Treatment difference relative to Placebo was calculated by (MK-8237-Placebo)/Placebo \* 100%. Confidence intervals were calculated by the bootstrap method. Number of participants included in analysis=78.

Comparison groups	MK-8237 6 DU v Placebo
Number of subjects included in analysis	79
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.198
Method	ANCOVA
Parameter estimate	Difference in LS Means
Point estimate	-0.54
Confidence interval	
level	95 %
sides	2-sided
lower limit	-1.38
upper limit	0.29

<b>Statistical analysis title</b>	Difference in LS Means at Week 16
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**Statistical analysis description:**

Difference in TNSS LS means at Week 16: MK-8237 6 DU vs. Placebo - Analysis via ANCOVA with treatment and Baseline end point score as fixed effects, and adjusted for different error variation for each treatment group. Treatment difference relative to Placebo was calculated by (MK-8237-Placebo)/Placebo \* 100%. Confidence intervals were calculated by the bootstrap method. Number of participants included in analysis=74.

Comparison groups	MK-8237 6 DU v Placebo
Number of subjects included in analysis	79
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.032
Method	ANCOVA
Parameter estimate	Difference in LS Means
Point estimate	-1.23
Confidence interval	
level	95 %
sides	2-sided
lower limit	-2.36
upper limit	-0.11

**Statistical analysis title**

Difference in LS Means at Week 8

**Statistical analysis description:**

Difference in TNSS LS means at Week 8: MK-8237 12 DU vs. Placebo - Analysis via ANCOVA with treatment and Baseline end point score as fixed effects, and adjusted for different error variation for each treatment group. Treatment difference relative to Placebo was calculated by (MK-8237-Placebo)/Placebo \* 100%. Confidence intervals were calculated by the bootstrap method. Number of participants included in analysis=79.

Comparison groups	MK-8237 12 DU v Placebo
Number of subjects included in analysis	80
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.007
Method	ANCOVA
Parameter estimate	Difference in LS Means
Point estimate	-1.37
Confidence interval	
level	95 %
sides	2-sided
lower limit	-2.34
upper limit	-0.39

**Statistical analysis title**

Difference in LS Means at Week 16

**Statistical analysis description:**

Difference in TNSS LS means at Week 16: MK-8237 12 DU vs. Placebo - Analysis via ANCOVA with treatment and Baseline end point score as fixed effects, and adjusted for different error variation for each treatment group. Treatment difference relative to Placebo was calculated by (MK-8237-Placebo)/Placebo \* 100%. Confidence intervals were calculated by the bootstrap method. Number of participants included in analysis=77.

Comparison groups	MK-8237 12 DU v Placebo
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Number of subjects included in analysis	80
Analysis specification	Pre-specified
Analysis type	superiority
P-value	< 0.001
Method	ANCOVA
Parameter estimate	Difference in LS Means
Point estimate	-2.08
Confidence interval	
level	95 %
sides	2-sided
lower limit	-3.14
upper limit	-1.03

## Secondary: Number of Participants Who Experienced At Least One Adverse Event (AE)

End point title	Number of Participants Who Experienced At Least One Adverse Event (AE)
End point description:	An AE was defined as any unfavorable and unintended sign (including an abnormal laboratory finding), symptom, or disease temporally associated with the use of study drug, whether or not considered related to this study drug.
End point type	Secondary
End point timeframe:	Up to 26 weeks (Up to 2 weeks after last dose of study drug)

End point values	MK-8237 6 DU	MK-8237 12 DU	Placebo	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	41 <sup>[19]</sup>	42 <sup>[20]</sup>	41 <sup>[21]</sup>	
Units: Participants	36	38	32	

Notes:

[19] - All Participants as Treated (APaT): All randomized participants who took  $\geq 1$  study drug dose.

[20] - APaT: All randomized participants who took  $\geq 1$  study drug dose.

[21] - APaT: All randomized participants who took  $\geq 1$  study drug dose.

## Statistical analyses

Statistical analysis title	Difference in Percentage vs. Placebo
Statistical analysis description:	Difference in percentage of participants who experienced at least one AE vs. Placebo: MK-8237 12 DU vs. Placebo - Analysis based on Miettinen & Nurminen method.
Comparison groups	MK-8237 12 DU v Placebo

Number of subjects included in analysis	83
Analysis specification	Pre-specified
Analysis type	other
Method	Miettinen & Nurminen Method
Parameter estimate	Difference in Percentages
Point estimate	12.4
Confidence interval	
level	95 %
sides	2-sided
lower limit	-3.6
upper limit	28.9

<b>Statistical analysis title</b>	Difference in Percentage vs. Placebo
Statistical analysis description:	
Difference in percentage of participants who experienced at least one AE vs. Placebo: MK-8237 6 DU vs. Placebo - Analysis based on Miettinen & Nurminen method.	
Comparison groups	MK-8237 6 DU v Placebo
Number of subjects included in analysis	82
Analysis specification	Pre-specified
Analysis type	other
Method	Miettinen & Nurminen Method
Parameter estimate	Difference in Percentages
Point estimate	9.8
Confidence interval	
level	95 %
sides	2-sided
lower limit	-7
upper limit	26.6

<b>Secondary: Number of Participants Who Discontinued Study Drug Due to an AE</b>	
End point title	Number of Participants Who Discontinued Study Drug Due to an AE
End point description:	
An AE was defined as any unfavorable and unintended sign (including an abnormal laboratory finding), symptom, or disease temporally associated with the use of study drug, whether or not considered related to this study drug.	
End point type	Secondary
End point timeframe:	
Up to 24 weeks	

End point values	MK-8237 6 DU	MK-8237 12 DU	Placebo	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	41 <sup>[22]</sup>	42 <sup>[23]</sup>	41 <sup>[24]</sup>	
Units: Participants	0	3	6	

Notes:

[22] - APaT: All randomized participants who took  $\geq 1$  study drug dose.

[23] - APaT: All randomized participants who took  $\geq 1$  study drug dose.

[24] - APaT: All randomized participants who took  $\geq 1$  study drug dose.

## Statistical analyses

Statistical analysis title	Difference in Percentage vs. Placebo
Statistical analysis description:	
Difference in percentage of participants who discontinued study drug due to an AE vs. Placebo: MK-8237 6 DU vs. Placebo - Analysis based on Miettinen & Nurminen method.	
Comparison groups	MK-8237 6 DU v Placebo
Number of subjects included in analysis	82
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Difference in Percentages
Point estimate	-14.6
Confidence interval	
level	95 %
sides	2-sided
lower limit	-28.5
upper limit	-5.4

Statistical analysis title	Difference in Percentage vs. Placebo
Statistical analysis description:	
Difference in percentage of participants who discontinued study drug due to an AE vs. Placebo: MK-8237 12 DU vs. Placebo - Analysis based on Miettinen & Nurminen method.	
Comparison groups	MK-8237 12 DU v Placebo
Number of subjects included in analysis	83
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Difference in Percentages
Point estimate	-7.5
Confidence interval	
level	95 %
sides	2-sided
lower limit	-22.6
upper limit	6.7

## Secondary: HDM-specific IgE Levels at Week 8

End point title	HDM-specific IgE Levels at Week 8
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End point description:

D. pteronyssinus and D. farinae serum IgE levels were measured using the ImmunoCap® assay at Week



8. IgE levels were expressed in Log 10 scale kU/L. Analysis was based on the ANOVA model with treatment as the fixed effect and reported as mean IgE with a standard deviation.

End point type	Secondary
End point timeframe:	
Week 8	

End point values	MK-8237 6 DU	MK-8237 12 DU	Placebo	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	39	40	39	
Units: Log 10 kU/L				
arithmetic mean (standard deviation)				
D. pteronyssinus	1.64 (± 0.53)	1.77 (± 0.67)	1.25 (± 0.54)	
D. farinae	1.69 (± 0.53)	1.8 (± 0.67)	1.31 (± 0.55)	

### Statistical analyses

No statistical analyses for this end point

### Secondary: HDM-specific IgG4 Levels at Week 8

End point title	HDM-specific IgG4 Levels at Week 8
End point description:	
D. pteronyssinus and D. farinae serum IgG4 levels were measured using the Immuncap® assay at Week 8. IgG4 levels were expressed in Log 10 scale mg/L. Analysis was based on the ANOVA model with treatment as the fixed effect and reported as mean IgG4 with a standard deviation.	
End point type	Secondary
End point timeframe:	
Week 8	

End point values	MK-8237 6 DU	MK-8237 12 DU	Placebo	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	39	40	39	
Units: Log 10 mg/L				
arithmetic mean (standard deviation)				
D. pteronyssinus	-0.33 (± 0.31)	-0.31 (± 0.4)	-0.57 (± 0.11)	
D. farinae	-0.31 (± 0.41)	-0.32 (± 0.47)	-0.62 (± 0.22)	

### Statistical analyses

No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

Up to 26 weeks (Up to 2 weeks after last dose of study drug)

Adverse event reporting additional description:

APaT: All randomized participants who took  $\geq 1$  study drug dose.

Assessment type	Systematic
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### Dictionary used

Dictionary name	MedDRA
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Dictionary version	16.0
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### Reporting groups

Reporting group title	MK-8237 6 DU
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Reporting group description:

Participants receive MK-8237 6 Development Units (DU) sublingual tablets once daily (QD), preferably at the same time each day, for 24 weeks

Reporting group title	MK-8237 12 DU
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Reporting group description:

Participants receive MK-8237 12 DU sublingual tablets, QD, preferably at the same time each day, for 24 weeks

Reporting group title	Placebo
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Reporting group description:

Participants receive Placebo sublingual tablets, QD, preferably at the same time each day, for 24 weeks

Serious adverse events	MK-8237 6 DU	MK-8237 12 DU	Placebo
Total subjects affected by serious adverse events			
subjects affected / exposed	0 / 41 (0.00%)	0 / 42 (0.00%)	1 / 41 (2.44%)
number of deaths (all causes)	0	0	0
number of deaths resulting from adverse events			
Ear and labyrinth disorders			
Vertigo			
subjects affected / exposed	0 / 41 (0.00%)	0 / 42 (0.00%)	1 / 41 (2.44%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0

Frequency threshold for reporting non-serious adverse events: 5 %

Non-serious adverse events	MK-8237 6 DU	MK-8237 12 DU	Placebo
Total subjects affected by non-serious adverse events			
subjects affected / exposed	35 / 41 (85.37%)	36 / 42 (85.71%)	24 / 41 (58.54%)
Nervous system disorders			

Headache subjects affected / exposed occurrences (all)	6 / 41 (14.63%) 9	7 / 42 (16.67%) 9	8 / 41 (19.51%) 13
Ear and labyrinth disorders Ear pruritus subjects affected / exposed occurrences (all)	1 / 41 (2.44%) 1	3 / 42 (7.14%) 3	0 / 41 (0.00%) 0
Gastrointestinal disorders Dyspepsia subjects affected / exposed occurrences (all)  Lip swelling subjects affected / exposed occurrences (all)  Oedema mouth subjects affected / exposed occurrences (all)  Oral pruritus subjects affected / exposed occurrences (all)	2 / 41 (4.88%) 2  2 / 41 (4.88%) 2  10 / 41 (24.39%) 10  6 / 41 (14.63%) 6	4 / 42 (9.52%) 6  8 / 42 (19.05%) 9  10 / 42 (23.81%) 10  6 / 42 (14.29%) 7	0 / 41 (0.00%) 0  1 / 41 (2.44%) 2  0 / 41 (0.00%) 0  0 / 41 (0.00%) 0
Respiratory, thoracic and mediastinal disorders Cough subjects affected / exposed occurrences (all)  Dyspnoea subjects affected / exposed occurrences (all)  Oropharyngeal pain subjects affected / exposed occurrences (all)  Rhinitis allergic subjects affected / exposed occurrences (all)  Rhinitis seasonal subjects affected / exposed occurrences (all)	2 / 41 (4.88%) 2  8 / 41 (19.51%) 13  4 / 41 (9.76%) 4  7 / 41 (17.07%) 8  3 / 41 (7.32%) 3	3 / 42 (7.14%) 3  7 / 42 (16.67%) 11  4 / 42 (9.52%) 5  5 / 42 (11.90%) 5  1 / 42 (2.38%) 1	1 / 41 (2.44%) 1  13 / 41 (31.71%) 22  2 / 41 (4.88%) 2  6 / 41 (14.63%) 7  2 / 41 (4.88%) 2

Throat irritation subjects affected / exposed occurrences (all)	14 / 41 (34.15%) 15	22 / 42 (52.38%) 26	0 / 41 (0.00%) 0
Infections and infestations			
Influenza subjects affected / exposed occurrences (all)	3 / 41 (7.32%) 5	3 / 42 (7.14%) 3	3 / 41 (7.32%) 3
Nasopharyngitis subjects affected / exposed occurrences (all)	9 / 41 (21.95%) 11	12 / 42 (28.57%) 16	8 / 41 (19.51%) 8

## **More information**

### **Substantial protocol amendments (globally)**

Were there any global substantial amendments to the protocol? No

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### **Interruptions (globally)**

Were there any global interruptions to the trial? No

### **Limitations and caveats**

None reported