

**Clinical trial results:****A Phase III, Two-Part, Randomized, Double-Blind, Placebo-Controlled, Multicenter Clinical Trial to Assess the Relative Efficacy and Tolerability of Two Doses of MK-0663/Etoricoxib in Patients with Rheumatoid Arthritis (MK-0663-107)****Summary**

EudraCT number	2010-019871-31
Trial protocol	FI BE AT LT GB DE SK CZ
Global end of trial date	29 July 2014

**Results information**

Result version number	v1
This version publication date	08 March 2016
First version publication date	03 June 2015

**Trial information****Trial identification**

Sponsor protocol code	MK-0663-107
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**Additional study identifiers**

ISRCTN number	-
ClinicalTrials.gov id (NCT number)	NCT01208181
WHO universal trial number (UTN)	-
Other trial identifiers	Protocol number: MK-0663-107

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:

## Results analysis stage

Analysis stage	Final
Date of interim/final analysis	29 July 2014
Is this the analysis of the primary completion data?	No
Global end of trial reached?	Yes
Global end of trial date	29 July 2014
Was the trial ended prematurely?	No

Notes:

## General information about the trial

Main objective of the trial:

This is a 2-part (6 weeks duration for each part), randomized, double-blind, placebo-controlled study in participants with rheumatoid arthritis. The hypothesis is that etoricoxib (60 mg and 90 mg) administration will demonstrate superior efficacy compared to placebo after 6 weeks of treatment, as measured by the greater mean improvement from baseline in the Disease Activity Score C-Reactive Protein (DAS-28 CRP), and by the greater mean improvement in Patient Global Assessment of Pain (PGAP) from baseline over 6 weeks of treatment. Additionally, the added benefit of increasing the dose of etoricoxib from 60 mg to 90 mg will be assessed in the second part of the study.

Protection of trial subjects:

This 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	27 September 2010
Long term follow-up planned	No
Independent data monitoring committee (IDMC) involvement?	No

Notes:

## Population of trial subjects

### Subjects enrolled per country

Country: Number of subjects enrolled	Poland: 216
Country: Number of subjects enrolled	Slovakia: 6
Country: Number of subjects enrolled	United Kingdom: 4
Country: Number of subjects enrolled	Czech Republic: 40
Country: Number of subjects enrolled	Finland: 2
Country: Number of subjects enrolled	Germany: 36
Country: Number of subjects enrolled	Lithuania: 24
Country: Number of subjects enrolled	Panama: 1
Country: Number of subjects enrolled	Peru: 39
Country: Number of subjects enrolled	Romania: 127
Country: Number of subjects enrolled	Russian Federation: 35
Country: Number of subjects enrolled	South Africa: 69
Country: Number of subjects enrolled	Taiwan: 74
Country: Number of subjects enrolled	United States: 309
Country: Number of subjects enrolled	Argentina: 154
Country: Number of subjects enrolled	Canada: 28
Country: Number of subjects enrolled	Colombia: 49

Country: Number of subjects enrolled	Guatemala: 51
Country: Number of subjects enrolled	India: 83
Country: Number of subjects enrolled	Mexico: 57
Worldwide total number of subjects	1404
EEA total number of subjects	455

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)	1148
From 65 to 84 years	256
85 years and over	0

## Subject disposition

### Recruitment

Recruitment details:

A total of 164 sites enrolled participants in this study.

### Pre-assignment

Screening details:

A total of 1765 patients were screened for inclusion in the study and 1404 of these patients were randomized. Of the 361 patients who were not randomized; 295 of these patients were excluded due to screen failures and 66 of these patients were not randomized due to other reasons.

### Period 1

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

### Arms

Are arms mutually exclusive?	Yes
<b>Arm title</b>	Placebo

Arm description:

The placebo treatment group will receive placebo to etoricoxib tablets administered orally once daily for 6 weeks in Part 1 of the study.

Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

The placebo treatment group will receive placebo to etoricoxib tablets administered orally once daily for 6 weeks in Part 1 of the study.

<b>Arm title</b>	Etoricoxib 60 mg
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Arm description:

The etoricoxib 60 mg treatment group will receive etoricoxib 60 mg tablets administered orally once daily for 6 weeks in Part 1 of the study.

Arm type	Experimental
Investigational medicinal product name	Etoricoxib 60 mg
Investigational medicinal product code	
Other name	MK-0663
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

The etoricoxib 60 mg treatment group will receive etoricoxib 60 mg tablets administered orally once daily for 6 weeks in Part 1 of the study.

<b>Arm title</b>	Etoricoxib 90 mg
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Arm description:

The etoricoxib 90 mg treatment sequence will receive etoricoxib 90 mg tablets administered orally once daily for 6 weeks in Part 1 of the study.

Arm type	Experimental
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Investigational medicinal product name	Etoricoxib 90 mg
Investigational medicinal product code	
Other name	MK-0663
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

The etoricoxib 90 mg treatment sequence will receive etoricoxib 90 mg tablets administered orally once daily for 6 weeks in Part 1 of the study.

<b>Number of subjects in period 1</b>	Placebo	Etoricoxib 60 mg	Etoricoxib 90 mg
Started	118	818	468
Completed	96	719	413
Not completed	22	99	55
Consent withdrawn by subject	-	11	10
Physician decision	-	4	-
Technical problem	-	5	-
Adverse event, non-fatal	4	26	24
Non-compliance with study drug	-	1	1
Lost to follow-up	1	5	3
Lack of efficacy	17	37	12
Protocol deviation	-	10	5

## Period 2

Period 2 title	Treatment Period 2
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator

## Arms

Are arms mutually exclusive?	Yes
<b>Arm title</b>	Etoricoxib 60 mg/etoricoxib 60 mg

Arm description:

The Etoricoxib 60 mg/etoricoxib 60 mg treatment sequence will receive etoricoxib 60 mg tablets administered orally once daily for 6 weeks in Part 1 and Part 2 of the study

Arm type	Experimental
Investigational medicinal product name	Etoricoxib 60 mg/etoricoxib 60 mg
Investigational medicinal product code	
Other name	MK-0663
Pharmaceutical forms	Tablet
Routes of administration	Oral use

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**Dosage and administration details:**

The Etoricoxib 60 mg/etoricoxib 60 mg treatment sequence will receive etoricoxib 60 mg tablets administered orally once daily for 6 weeks in Part 1 and Part 2 of the study.

<b>Arm title</b>	Etoricoxib 60 mg/etoricoxib 90 mg
Arm description: The etoricoxib 60 mg/etoricoxib 90 mg treatment sequence will receive etoricoxib 60 mg tablets administered orally once daily for 6 weeks in Part 1 of the study and etoricoxib 90 mg tablets administered orally once daily for 6 weeks in Part 2 of the study.	
Arm type	Experimental
Investigational medicinal product name	Etoricoxib 60 mg/etoricoxib 90 mg
Investigational medicinal product code	
Other name	MK-0663
Pharmaceutical forms	Tablet
Routes of administration	Oral use

**Dosage and administration details:**

The etoricoxib 60 mg/etoricoxib 90 mg treatment sequence will receive etoricoxib 60 mg tablets administered orally once daily for 6 weeks in Part 1 of the study and etoricoxib 90 mg tablets administered orally once daily for 6 weeks in Part 2 of the study.

<b>Number of subjects in period 2<sup>[1]</sup></b>	Etoricoxib 60 mg/etoricoxib 60 mg	Etoricoxib 60 mg/etoricoxib 90 mg
	Started	350
Completed	334	343
Not completed	16	20
Consent withdrawn by subject	1	1
Physician decision	1	2
Adverse event, non-fatal	6	7
Non-compliance with study drug	1	1
Lost to follow-up	1	2
Lack of efficacy	5	7
Protocol deviation	1	-

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**Notes:**

[1] - 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: Per protocol, participants receiving Etoricoxib 60 mg in Part 1 of the study received etoricoxib 60 mg or etoricoxib 90 mg in Part 2 of the study.

## Baseline characteristics

### Reporting groups

Reporting group title	Placebo
Reporting group description: The placebo treatment group will receive placebo to etoricoxib tablets administered orally once daily for 6 weeks in Part 1 of the study.	
Reporting group title	Etoricoxib 60 mg
Reporting group description: The etoricoxib 60 mg treatment group will receive etoricoxib 60 mg tablets administered orally once daily for 6 weeks in Part 1 of the study.	
Reporting group title	Etoricoxib 90 mg
Reporting group description: The etoricoxib 90 mg treatment sequence will receive etoricoxib 90 mg tablets administered orally once daily for 6 weeks in Part 1 of the study.	

Reporting group values	Placebo	Etoricoxib 60 mg	Etoricoxib 90 mg
Number of subjects	118	818	468
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)	102	671	375
From 65-84 years	16	147	93
85 years and over	0	0	0
Age continuous Units: years			
arithmetic mean	53.6	53.8	54
standard deviation	± 11	± 11.9	± 12.3
Gender categorical Units: Subjects			
Female	100	677	395
Male	18	141	73
Disease Activity Score using C reactive protein (DAS28-CRP)			
The DAS28-CRP index (0 - 10 Range) is a composite score of weighted components including tender joint counts of 28, swollen joint counts of 28, patient global assessment of disease activity, and C-reactive protein (CRP). For each observation (Baseline, Week 2, 4, 6, 10, 12), components were combined into a single DAS28-CRP score using the following algorithm: $0.56 \times \sqrt{\text{tender joint count [28]}} + 0.28 \times \sqrt{\text{swollen joint count [28]}} + 0.36 \times \ln(\text{crp} + 1) + 0.014 \times \text{Patient Global Assessment of Disease Activity} + 0.96$ . (N = 732, 426, 103 for Etoricoxib 60 mg and 90 mg, and Placebo)			
Units: Scores on a scale			
arithmetic mean	5.65	5.64	5.62
standard deviation	± 1.12	± 0.99	± 1
Patient Global Assessment of Pain			

A participant overall assessment of pain on a visual analog scale (VAS) were assessed with a question concerning the amount of pain due to arthritis during the past 48 hours. Pain was assessed on an 100 mm VAS scale with a left-hand marker "no pain" (0 mm) or right-hand marker "extreme pain" (100 mm). (N = 751, 430, 108 for Etoricoxib 60 mg, Etoricoxib 90 mg, and Placebo)

Units: Scores on a scale			
arithmetic mean	74.08	70.84	70.58
standard deviation	± 14.23	± 15.5	± 15.02

<b>Reporting group values</b>	Total		
Number of subjects	1404		
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)	1148		
From 65-84 years	256		
85 years and over	0		
Age continuous			
Units: years			
arithmetic mean			
standard deviation	-		
Gender categorical			
Units: Subjects			
Female	1172		
Male	232		
Disease Activity Score using C reactive protein (DAS28-CRP)			
The DAS28-CRP index (0 - 10 Range) is a composite score of weighted components including tender joint counts of 28, swollen joint counts of 28, patient global assessment of disease activity, and C-reactive protein (CRP). For each observation (Baseline, Week 2, 4, 6, 10, 12), components were combined into a single DAS28-CRP score using the following algorithm: $0.56 \times \sqrt{\text{tender joint count [28]}} + 0.28 \times \sqrt{\text{swollen joint count [28]}} + 0.36 \times \ln(\text{crp} + 1) + 0.014 \times \text{Patient Global Assessment of Disease Activity} + 0.96$ . (N = 732, 426, 103 for Etoricoxib 60 mg and 90 mg, and Placebo)			
Units: Scores on a scale			
arithmetic mean			
standard deviation	-		
Patient Global Assessment of Pain			
A participant overall assessment of pain on a visual analog scale (VAS) were assessed with a question concerning the amount of pain due to arthritis during the past 48 hours. Pain was assessed on an 100 mm VAS scale with a left-hand marker "no pain" (0 mm) or right-hand marker "extreme pain" (100 mm). (N = 751, 430, 108 for Etoricoxib 60 mg, Etoricoxib 90 mg, and Placebo)			
Units: Scores on a scale			
arithmetic mean			
standard deviation	-		

## End points

### End points reporting groups

Reporting group title	Placebo
Reporting group description: The placebo treatment group will receive placebo to etoricoxib tablets administered orally once daily for 6 weeks in Part 1 of the study.	
Reporting group title	Etoricoxib 60 mg
Reporting group description: The etoricoxib 60 mg treatment group will receive etoricoxib 60 mg tablets administered orally once daily for 6 weeks in Part 1 of the study.	
Reporting group title	Etoricoxib 90 mg
Reporting group description: The etoricoxib 90 mg treatment sequence will receive etoricoxib 90 mg tablets administered orally once daily for 6 weeks in Part 1 of the study.	
Reporting group title	Etoricoxib 60 mg/etoricoxib 60 mg
Reporting group description: The Etoricoxib 60 mg/etoricoxib 60 mg treatment sequence will receive etoricoxib 60 mg tablets administered orally once daily for 6 weeks in Part 1 and Part 2 of the study	
Reporting group title	Etoricoxib 60 mg/etoricoxib 90 mg
Reporting group description: The etoricoxib 60 mg/etoricoxib 90 mg treatment sequence will receive etoricoxib 60 mg tablets administered orally once daily for 6 weeks in Part 1 of the study and etoricoxib 90 mg tablets administered orally once daily for 6 weeks in Part 2 of the study.	

### Primary: Time-Weighted Average Change From Baseline in DAS28-CRP in Part 1 (Etoricoxib vs. Placebo)

End point title	Time-Weighted Average Change From Baseline in DAS28-CRP in Part 1 (Etoricoxib vs. Placebo)
End point description: Disease Activity Score Using C-Reactive Protein [DAS28-CRP] (0 - 10 Range). The DAS28-CRP index is a composite score of weighted components including tender joint counts of 28, swollen joint counts of 28, patient global assessment of disease activity, and C-reactive protein (CRP). For each observation (Baseline, Week 2, 4, 6, 10, 12), components were combined into a single DAS28-CRP score using the following algorithm: $0.56 \times \sqrt{\text{tender joint count [28]}} + 0.28 \times \sqrt{\text{swollen joint count [28]}} + 0.36 \times \ln(\text{crp} + 1) + 0.014 \times \text{Patient Global Assessment of Disease Activity} + 0.96$ . The primary objectives of the study compared the efficacy of etoricoxib (90 mg, 60 mg) to placebo in Part 1 of this study so data for only these 3 arms are displayed.	
End point type	Primary
End point timeframe: Baseline and Week 6	

End point values	Placebo	Etoricoxib 60 mg	Etoricoxib 90 mg	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	103 <sup>[1]</sup>	732 <sup>[2]</sup>	426 <sup>[3]</sup>	
Units: Scores on a scale				
least squares mean (confidence interval 95%)	-1.1 (-1.29 to -0.9)	-1.39 (-1.48 to -1.3)	-1.37 (-1.48 to -1.26)	

Notes:

[1] - Participants with  $\geq 1$  dose of study drug, and both baseline and post-baseline data

[2] - Participants with  $\geq 1$  dose of study drug, and both baseline and post-baseline data

[3] - Participants with  $\geq 1$  dose of study drug, and both baseline and post-baseline data

## Statistical analyses

<b>Statistical analysis title</b>	Treatment Difference (Etoricoxib 60 mg v. Placebo)
Statistical analysis description:	
Difference in the least squares means between change from baseline in DAS28-CRP for participants taking Etoricoxib 60 mg at Week 6 vs. change from baseline in DAS28-CRP for participants taking Placebo at Week 6.	
Comparison groups	Etoricoxib 60 mg v Placebo
Number of subjects included in analysis	835
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.004
Method	Tukey-Ciminera-Heysetrend test
Parameter estimate	Difference in least squares mean
Point estimate	-0.29
Confidence interval	
level	95 %
sides	2-sided
lower limit	-0.49
upper limit	-0.09

<b>Statistical analysis title</b>	Treatment Difference (Etoricoxib 90 mg v. Placebo)
Statistical analysis description:	
Difference in the least squares means between change from baseline in DAS28-CRP for participants taking Etoricoxib 90 mg at Week 6 vs. change from baseline in DAS28-CRP for participants taking Placebo at Week 6	
Comparison groups	Placebo v Etoricoxib 90 mg
Number of subjects included in analysis	529
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.034
Method	Tukey-Ciminera-Heysetrend test
Parameter estimate	Difference in least squares mean
Point estimate	-0.27
Confidence interval	
level	95 %
sides	2-sided
lower limit	-0.48
upper limit	-0.06

## Primary: Time-Weighted Average Change From Baseline in Patient Global

## Assessment of Pain in Part 1 (Etoricoxib vs. Placebo)

End point title	Time-Weighted Average Change From Baseline in Patient Global Assessment of Pain in Part 1 (Etoricoxib vs. Placebo)
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### End point description:

A participant overall assessment of pain on a visual analog scale (VAS) was assessed with a question concerning the amount of pain due to arthritis during the past 48 hours. Pain was assessed on an 100 mm VAS scale with a left-hand marker "no pain" (0 mm) or right-hand marker "extreme pain" (100 mm). The primary objectives of the study compared the efficacy of etoricoxib (90 mg, 60 mg) to placebo in Part 1 of this study so data for only these 3 arms are displayed.

End point type	Primary
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### End point timeframe:

Baseline and Week 6

End point values	Placebo	Etoricoxib 60 mg	Etoricoxib 90 mg	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	108 <sup>[4]</sup>	751 <sup>[5]</sup>	430 <sup>[6]</sup>	
Units: Scores on a scale				
least squares mean (confidence interval 95%)	-20.26 (-24.04 to -16.48)	-28.25 (-30.05 to -26.44)	-30.96 (-33.13 to -28.79)	

### Notes:

[4] - Participants with  $\geq 1$  dose of study drug, and both baseline and post-baseline data

[5] - Participants with  $\geq 1$  dose of study drug, and both baseline and post-baseline data

[6] - PaParticipants with  $\geq 1$  dose of study drug, and both baseline and post-baseline data

## Statistical analyses

Statistical analysis title	Treatment Difference (Etoricoxib 60 mg v. Placebo)
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### Statistical analysis description:

Change from baseline in Patient Global Assessment of Disease Activity at Week 6 for participants treated with Etoricoxib 60 mg minus change from baseline in Patient Global Assessment of Disease Activity at Week 6 for participants treated with Placebo.

Comparison groups	Etoricoxib 60 mg v Placebo
Number of subjects included in analysis	859
Analysis specification	Pre-specified
Analysis type	superiority
P-value	< 0.001
Method	Tukey-Ciminera-Heyse trend test
Parameter estimate	Difference in the least squares mean
Point estimate	-7.99
Confidence interval	
level	95 %
sides	2-sided
lower limit	-11.85
upper limit	-4.13

Statistical analysis title	Treatment Difference (Etoricoxib 90 mg v. Placebo)
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### Statistical analysis description:

Change from baseline in Patient Global Assessment of Disease Activity at Week 6 for participants treated

with Etoricoxib 90 mg minus change from baseline in Patient Global Assessment of Disease Activity at Week 6 for participants treated with Placebo.

Comparison groups	Placebo v Etoricoxib 90 mg
Number of subjects included in analysis	538
Analysis specification	Pre-specified
Analysis type	superiority
P-value	< 0.001
Method	Tukey-Ciminera-Heyse trend test
Parameter estimate	Difference in least squares mean
Point estimate	-10.7
Confidence interval	
level	95 %
sides	2-sided
lower limit	-14.74
upper limit	-6.66

### Secondary: Time-Weighted Average Change From Baseline in DAS28-CRP in Part 1 (Etoricoxib 90 mg vs. Etoricoxib 60 mg)

End point title	Time-Weighted Average Change From Baseline in DAS28-CRP in Part 1 (Etoricoxib 90 mg vs. Etoricoxib 60 mg)
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End point description:

Disease Activity Score Using C-Reactive Protein [DAS28-CRP] (0 - 10 Range). The DAS28-CRP index is a composite score of weighted components including tender joint counts of 28, swollen joint counts of 28, patient global assessment of disease activity, and C-reactive protein (CRP). For each observation (Baseline, Week 2, 4, 6, 10, 12), components were combined into a single DAS28-CRP score using the following algorithm:  $0.56 \times \text{square root (sqrt)} (\text{tender joint count [28]}) + 0.28 \times \text{sqrt}(\text{swollen joint count [28]}) + 0.36 \times \ln(\text{crp} + 1) + 0.014 \times \text{Patient Global Assessment of Disease Activity} + 0.96$ . A key secondary objective was to compare the relative efficacy between etoricoxib 90 mg and 60 mg in Part 1 of this study.

End point type	Secondary
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End point timeframe:

Baseline and Week 6

End point values	Placebo	Etoricoxib 60 mg	Etoricoxib 90 mg	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	103 <sup>[7]</sup>	732 <sup>[8]</sup>	426 <sup>[9]</sup>	
Units: Scores on a scale				
least squares mean (confidence interval 95%)	-1.1 (-1.29 to 0.9)	-1.39 (-1.48 to -1.3)	-1.37 (-1.48 to -1.26)	

Notes:

[7] - Participants with  $\geq 1$  dose of study drug, and both baseline and post-baseline data

[8] - Participants with  $\geq 1$  dose of study drug, and both baseline and post-baseline data

[9] - Participants with  $\geq 1$  dose of study drug, and both baseline and post-baseline data

### Statistical analyses

Statistical analysis title	Treatment Difference (Etoricoxib 60 mg vs. 90 mg)
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Statistical analysis description:

Difference in the least squares means between change from baseline in DAS28-CRP for participants

taking Etoricoxib 60 mg at Week 6 vs. change from baseline in DAS28-CRP for participants taking Etoricoxib 90 mg at Week 6.

Comparison groups	Etoricoxib 60 mg v Etoricoxib 90 mg
Number of subjects included in analysis	1158
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.73
Method	Tukey-Ciminera-Heysetrend test
Parameter estimate	Difference in least squares mean
Point estimate	0.02
Confidence interval	
level	95 %
sides	2-sided
lower limit	-0.1
upper limit	0.14

### Secondary: Time-Weighted Mean Change From Baseline in Patient Global Assessment of Pain in Part 1 (Etoricoxib 90 mg vs. Etoricoxib 60 mg)

End point title	Time-Weighted Mean Change From Baseline in Patient Global Assessment of Pain in Part 1 (Etoricoxib 90 mg vs. Etoricoxib 60 mg)
End point description:	A participant overall assessment of pain on a visual analog scale (VAS) was assessed with a question concerning the amount of pain due to arthritis during the past 48 hours. Pain was assessed on an 100 mm VAS scale with a left-hand marker "no pain" (0 mm) or right-hand marker "extreme pain" (100 mm). A key secondary objective was to compare the relative efficacy between etoricoxib 90 mg and 60 mg in Part 1 of this study.
End point type	Secondary
End point timeframe:	Baseline and Week 6

End point values	Placebo	Etoricoxib 60 mg	Etoricoxib 90 mg	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	108 <sup>[10]</sup>	751 <sup>[11]</sup>	430 <sup>[12]</sup>	
Units: Scores on a scale				
least squares mean (confidence interval 95%)	-20.26 (-24.04 to -16.48)	-28.25 (-30.05 to -26.44)	-30.96 (-33.13 to -28.79)	

Notes:

[10] - Participants with  $\geq 1$  dose of study drug, and both baseline and post-baseline data

[11] - Participants with  $\geq 1$  dose of study drug, and both baseline and post-baseline data

[12] - Participants with  $\geq 1$  dose of study drug, and both baseline and post-baseline data

### Statistical analyses

Statistical analysis title	Treatment Difference (Etoricoxib 60 mg vs. 90 mg)
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Statistical analysis description:

Change from baseline in Patient Global Assessment of Disease Activity at Week 6 for participants treated with Etoricoxib 60 mg minus change from baseline in Patient Global Assessment of Disease Activity at Week 6 for participants treated with Etoricoxib 90 mg.

Comparison groups	Etoricoxib 60 mg v Etoricoxib 90 mg
Number of subjects included in analysis	1181
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.019
Method	Tukey-Ciminera-Heyse trend test
Parameter estimate	Difference in least squares mean
Point estimate	-2.71
Confidence interval	
level	95 %
sides	2-sided
lower limit	-4.98
upper limit	-0.45

### Secondary: Average change from Week 6 in Patient Global Assessment of Pain Over Weeks 10 and 12 in Part 2 Among Pain Inadequate Responders from Part 1

End point title	Average change from Week 6 in Patient Global Assessment of Pain Over Weeks 10 and 12 in Part 2 Among Pain Inadequate Responders from Part 1
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#### End point description:

A participant overall assessment of pain on a visual analog scale (VAS) was assessed with a question concerning the amount of pain due to arthritis during the past 48 hours. Pain was assessed on an 100 mm VAS scale with a left-hand marker "no pain" (0 mm) or right-hand marker "extreme pain" (100 mm). In those participants who were considered inadequate responders to etoricoxib 60 mg in Part 1 (defined as a participant with <50% improvement from baseline in PGAP [VAS] at Week 6), the incremental benefit of increasing the etoricoxib dose from 60 mg (in Part 1) to 90 mg (in Part 2) compared to remaining on 60 mg in Part 2 was evaluated via average change from Week 6 over Weeks 10 and 12 in Patient Global Assessment of Pain score. Therefore, data for only these 2 arms are displayed.

End point type	Secondary
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#### End point timeframe:

Week 6 and Week 10 to Week 12

End point values	Etoricoxib 60 mg/etoricoxib 60 mg	Etoricoxib 60 mg/etoricoxib 90 mg		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	188 <sup>[13]</sup>	187 <sup>[14]</sup>		
Units: Scores on a scale				
least squares mean (confidence interval 95%)	-11.96 (-14.96 to -8.97)	-10.35 (-13.32 to -7.39)		

#### Notes:

[13] - Participants with <50% improvement from baseline in PGAP at Week 6 and received at least 1 drug dose

[14] - Participants with <50% improvement from baseline in PGAP at Week 6 and received at least 1 drug dose

### Statistical analyses

Statistical analysis title	Treatment Difference (Etoricoxib 60 mg vs. 90 mg)
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Statistical analysis description:

Change from Week 6 in Patient Global Assessment of Disease Activity over Weeks 10 to 12 for participants treated with Etoricoxib 60 mg/Etoricoxib 60 mg minus change from Week 6 in Patient Global Assessment of Disease Activity over Weeks 10 to 12 for participants treated with Etoricoxib 60 mg/Etoricoxib 90 mg.

Comparison groups	Etoricoxib 60 mg/etoricoxib 60 mg v Etoricoxib 60 mg/etoricoxib 90 mg
Number of subjects included in analysis	375
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.327
Method	Covariance model
Parameter estimate	Difference in the least squares mean
Point estimate	1.61
Confidence interval	
level	Other: 80 %
sides	2-sided
lower limit	-0.49
upper limit	3.71

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

Up to 112 days

Adverse event reporting additional description:

The All Participants as Treated (APaT) population was used for the analysis of safety data in this study and consisted of all randomized participants who received at least one dose of study treatment. Participants were included in the treatment group corresponding to the study treatment they actually received for the analysis of safety data.

Assessment type	Systematic
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### Dictionary used

Dictionary name	MedDRA
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Dictionary version	17.0
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### Reporting groups

Reporting group title	Part 1: Placebo
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Reporting group description:

The placebo treatment group will receive placebo to etoricoxib tablets administered orally once daily in Part 1 of the study.

Reporting group title	Part 1: Etoricoxib 60 mg
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Reporting group description:

The Etoricoxib 60 mg treatment group will receive etoricoxib tablets 60 mg administered orally once daily in Part 1 of the study.

Reporting group title	Part 1: Etoricoxib 90 mg
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Reporting group description:

The Etoricoxib 90 mg treatment group will receive etoricoxib tablets 90 mg administered orally once daily in Part 1 of the study.

Reporting group title	Part 1/2: Etoricoxib 60 mg/60 mg
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Reporting group description:

The Etoricoxib 60 mg/Etoricoxib 60 mg treatment sequence will receive etoricoxib tablets 60 mg administered orally once daily in Part 1 and Part 2 of the study.

Reporting group title	Part 1/2: Etoricoxib 60 mg/90 mg
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Reporting group description:

The Etoricoxib 60 mg/Etoricoxib 90 mg treatment sequence will receive etoricoxib tablets 60 mg administered orally once daily in Part 1 of the study and etoricoxib tablets 90 mg administered orally once daily in Part 2 of the study.

<b>Serious adverse events</b>	Part 1: Placebo	Part 1: Etoricoxib 60 mg	Part 1: Etoricoxib 90 mg
Total subjects affected by serious adverse events			
subjects affected / exposed	0 / 118 (0.00%)	7 / 819 (0.85%)	2 / 467 (0.43%)
number of deaths (all causes)	0	0	0
number of deaths resulting from adverse events	0	0	0
Injury, poisoning and procedural complications			
Head injury			

subjects affected / exposed	0 / 118 (0.00%)	0 / 819 (0.00%)	1 / 467 (0.21%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Hip fracture			
subjects affected / exposed	0 / 118 (0.00%)	0 / 819 (0.00%)	0 / 467 (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 / 118 (0.00%)	0 / 819 (0.00%)	0 / 467 (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
Atrial fibrillation			
subjects affected / exposed	0 / 118 (0.00%)	0 / 819 (0.00%)	0 / 467 (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
Coronary artery disease			
subjects affected / exposed	0 / 118 (0.00%)	0 / 819 (0.00%)	0 / 467 (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
Nervous system disorders			
Cerebrovascular accident			
subjects affected / exposed	0 / 118 (0.00%)	0 / 819 (0.00%)	0 / 467 (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			
Chest discomfort			
subjects affected / exposed	0 / 118 (0.00%)	1 / 819 (0.12%)	0 / 467 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Non-cardiac chest pain			
subjects affected / exposed	0 / 118 (0.00%)	2 / 819 (0.24%)	0 / 467 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 2	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0

Gastrointestinal disorders			
Gastric ulcer haemorrhage			
subjects affected / exposed	0 / 118 (0.00%)	1 / 819 (0.12%)	0 / 467 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Gastroduodenitis			
subjects affected / exposed	0 / 118 (0.00%)	1 / 819 (0.12%)	0 / 467 (0.00%)
occurrences causally related to treatment / all	0 / 0	1 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Haemorrhoidal haemorrhage			
subjects affected / exposed	0 / 118 (0.00%)	0 / 819 (0.00%)	0 / 467 (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
Respiratory, thoracic and mediastinal disorders			
Haemoptysis			
subjects affected / exposed	0 / 118 (0.00%)	1 / 819 (0.12%)	0 / 467 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Skin and subcutaneous tissue disorders			
Urticaria			
subjects affected / exposed	0 / 118 (0.00%)	1 / 819 (0.12%)	0 / 467 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Musculoskeletal and connective tissue disorders			
Arthritis			
subjects affected / exposed	0 / 118 (0.00%)	0 / 819 (0.00%)	0 / 467 (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			
Cellulitis			
subjects affected / exposed	0 / 118 (0.00%)	1 / 819 (0.12%)	0 / 467 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Gastroenteritis viral			

subjects affected / exposed	0 / 118 (0.00%)	0 / 819 (0.00%)	0 / 467 (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
<b>Pyomyositis</b>			
subjects affected / exposed	0 / 118 (0.00%)	0 / 819 (0.00%)	0 / 467 (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
<b>Upper respiratory tract infection</b>			
subjects affected / exposed	0 / 118 (0.00%)	0 / 819 (0.00%)	1 / 467 (0.21%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0

<b>Serious adverse events</b>	Part 1/2: Etoricoxib 60 mg/60 mg	Part 1/2: Etoricoxib 60 mg/90 mg	
<b>Total subjects affected by serious adverse events</b>			
subjects affected / exposed	4 / 350 (1.14%)	5 / 363 (1.38%)	
number of deaths (all causes)	0	0	
number of deaths resulting from adverse events	0	0	
<b>Injury, poisoning and procedural complications</b>			
<b>Head injury</b>			
subjects affected / exposed	0 / 350 (0.00%)	0 / 363 (0.00%)	
occurrences causally related to treatment / all	0 / 0	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Hip fracture</b>			
subjects affected / exposed	0 / 350 (0.00%)	1 / 363 (0.28%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Cardiac disorders</b>			
<b>Acute myocardial infarction</b>			
subjects affected / exposed	0 / 350 (0.00%)	1 / 363 (0.28%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Atrial fibrillation</b>			

subjects affected / exposed	1 / 350 (0.29%)	0 / 363 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Coronary artery disease			
subjects affected / exposed	0 / 350 (0.00%)	1 / 363 (0.28%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Nervous system disorders			
Cerebrovascular accident			
subjects affected / exposed	0 / 350 (0.00%)	1 / 363 (0.28%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
General disorders and administration site conditions			
Chest discomfort			
subjects affected / exposed	0 / 350 (0.00%)	0 / 363 (0.00%)	
occurrences causally related to treatment / all	0 / 0	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Non-cardiac chest pain			
subjects affected / exposed	1 / 350 (0.29%)	0 / 363 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Gastrointestinal disorders			
Gastric ulcer haemorrhage			
subjects affected / exposed	0 / 350 (0.00%)	0 / 363 (0.00%)	
occurrences causally related to treatment / all	0 / 0	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Gastroduodenitis			
subjects affected / exposed	0 / 350 (0.00%)	0 / 363 (0.00%)	
occurrences causally related to treatment / all	0 / 0	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Haemorrhoidal haemorrhage			
subjects affected / exposed	1 / 350 (0.29%)	0 / 363 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	

Respiratory, thoracic and mediastinal disorders			
Haemoptysis			
subjects affected / exposed	0 / 350 (0.00%)	0 / 363 (0.00%)	
occurrences causally related to treatment / all	0 / 0	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Skin and subcutaneous tissue disorders			
Urticaria			
subjects affected / exposed	0 / 350 (0.00%)	0 / 363 (0.00%)	
occurrences causally related to treatment / all	0 / 0	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Musculoskeletal and connective tissue disorders			
Arthritis			
subjects affected / exposed	1 / 350 (0.29%)	0 / 363 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Infections and infestations			
Cellulitis			
subjects affected / exposed	0 / 350 (0.00%)	0 / 363 (0.00%)	
occurrences causally related to treatment / all	0 / 0	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Gastroenteritis viral			
subjects affected / exposed	0 / 350 (0.00%)	1 / 363 (0.28%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pyomyositis			
subjects affected / exposed	0 / 350 (0.00%)	1 / 363 (0.28%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Upper respiratory tract infection			
subjects affected / exposed	0 / 350 (0.00%)	0 / 363 (0.00%)	
occurrences causally related to treatment / all	0 / 0	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	

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

<b>Non-serious adverse events</b>	Part 1: Placebo	Part 1: Etoricoxib 60 mg	Part 1: Etoricoxib 90 mg
Total subjects affected by non-serious adverse events			
subjects affected / exposed	6 / 118 (5.08%)	25 / 819 (3.05%)	17 / 467 (3.64%)
Nervous system disorders			
Headache			
subjects affected / exposed	6 / 118 (5.08%)	25 / 819 (3.05%)	17 / 467 (3.64%)
occurrences (all)	8	27	27

<b>Non-serious adverse events</b>	Part 1/2: Etoricoxib 60 mg/60 mg	Part 1/2: Etoricoxib 60 mg/90 mg	
Total subjects affected by non-serious adverse events			
subjects affected / exposed	6 / 350 (1.71%)	6 / 363 (1.65%)	
Nervous system disorders			
Headache			
subjects affected / exposed	6 / 350 (1.71%)	6 / 363 (1.65%)	
occurrences (all)	6	7	

## **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