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## Evaluating Efficacy and Safety of E2007 (Perampanel) Given as Adjunctive Therapy in Subjects With Refractory Partial Seizures

**This study has been completed.**

**Sponsor:**  
Eisai Inc.

**Information provided by (Responsible Party):**  
Eisai Inc.

**ClinicalTrials.gov Identifier:**  
NCT00700310

First received: June 17, 2008  
Last updated: December 17, 2015  
Last verified: November 2015  
[History of Changes](#)

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Results First Received: October 23, 2012

<b>Study Type:</b>	Interventional
<b>Study Design:</b>	Allocation: Randomized; Endpoint Classification: Safety/Efficacy Study; Intervention Model: Parallel Assignment; Masking: Double Blind (Subject, Investigator); Primary Purpose: Treatment
<b>Condition:</b>	Refractory Partial Seizures
<b>Interventions:</b>	Drug: perampanel Drug: Placebo

### ▶ Participant Flow

[Hide Participant Flow](#)

#### Recruitment Details

**Key information relevant to the recruitment process for the overall study, such as dates of the recruitment period and locations**

No text entered.

#### Pre-Assignment Details

**Significant events and approaches for the overall study following participant enrollment, but prior to group assignment**

No text entered.

#### Reporting Groups

	Description
<b>Placebo</b>	Placebo over 19-weeks (during 6-week Titration phase and 13-week Maintenance phase)
<b>Perampanel 2mg</b>	Perampanel 2mg daily over 19-weeks (during 6-week Titration phase and 13-week Maintenance phase)

<b>Perampanel 4mg</b>	Perampanel 4mg maximum daily dose (Titration from 2mg to 4mg daily over 6-weeks; Maintenance at 4 mg daily over 13-weeks)
<b>Perampanel 8 mg</b>	Perampanel 8mg maximum daily dose (Titration from 2mg to 8mg daily over 6-weeks; Maintenance at 8 mg daily over 13-weeks)

#### Participant Flow: Overall Study

	Placebo	Perampanel 2mg	Perampanel 4mg	Perampanel 8 mg
<b>STARTED</b>	187	180	174	171
<b>COMPLETED</b>	166	154	158	145
<b>NOT COMPLETED</b>	21	26	16	26
Adverse Event	6	10	5	11
Lost to Follow-up	4	1	0	1
Withdrawal by Subject	8	9	8	8
Lack of Efficacy	0	3	0	1
Administrative/Other	1	3	1	3
Randomized, Not Treated	2	0	2	2

### ► Baseline Characteristics

▢ Hide Baseline Characteristics

#### Population Description

Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.

No text entered.

#### Reporting Groups

	Description
<b>Placebo</b>	Placebo over 19-weeks (during 6-week Titration phase and 13-week Maintenance phase)
<b>Perampanel 2mg</b>	Perampanel 2mg daily over 19-weeks (during 6-week Titration phase and 13-week Maintenance phase)
<b>Perampanel 4mg</b>	Perampanel 4mg maximum daily dose (Titration from 2mg to 4mg daily over 6-weeks; Maintenance at 4 mg daily over 13-weeks)
<b>Perampanel 8 mg</b>	Perampanel 8mg maximum daily dose (Titration from 2mg to 8mg daily over 6-weeks; Maintenance at 8 mg daily over 13-weeks)
<b>Total</b>	Total of all reporting groups

#### Baseline Measures

	Placebo	Perampanel 2mg	Perampanel 4mg	Perampanel 8 mg	Total
<b>Overall Participants Analyzed</b> [Units: Participants]	185	180	172	169	706
<b>Age, Customized</b> [Units: Participants]					
<18 Years	14	21	13	12	60
18-64 Years	169	156	158	153	636
>64 Years	2	3	1	4	10

Gender <sup>[1]</sup> [Units: Participants]					
Female	90	95	84	92	361
Male	95	85	88	77	345

[1] The number of participants started is not consistent with the number of Baseline Participants due to 6 participants who were randomized in the study, but not treated with study drug.

Race/Ethnicity, Customized <sup>[1]</sup> [Units: Participants]					
White	119	119	105	116	459
Asian	34	35	37	28	134
Chinese	31	25	29	25	110
Other	1	1	1	0	3

[1] Race

## ► Outcome Measures

☰ Hide All Outcome Measures

1. Primary: Percent Change in the 28-day Seizure Frequency From Baseline to the End of the Double-blind Phase (Titration and Maintenance Phases) [ Time Frame: Baseline (Pre-randomization) through Week 19 ]

<b>Measure Type</b>	Primary
<b>Measure Title</b>	Percent Change in the 28-day Seizure Frequency From Baseline to the End of the Double-blind Phase (Titration and Maintenance Phases)
<b>Measure Description</b>	Seizure frequency per 28 days was derived from the information recorded in the subject diaries.
<b>Time Frame</b>	Baseline (Pre-randomization) through Week 19
<b>Safety Issue</b>	No

### Population Description

Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.

Full Intent-to-Treat (ITT) Analysis Set - group of subjects who were randomized to study drug, received study drug, and had any seizure frequency data during the Double-blind Phase.

### Reporting Groups

	Description
Placebo	Placebo over 19-weeks (during 6-week Titration phase and 13-week Maintenance phase)
Perampanel 2mg	Perampanel 2mg daily over 19-weeks (during 6-week Titration phase and 13-week Maintenance phase)
Perampanel 4mg	Perampanel 4mg maximum daily dose (Titration from 2mg to 4mg daily over 6-weeks; Maintenance at 4 mg daily over 13-weeks)
Perampanel 8 mg	Perampanel 8mg maximum daily dose (Titration from 2mg to 8mg daily over 6-weeks; Maintenance at 8 mg daily over 13-weeks)

### Measured Values

	Placebo	Perampanel 2mg	Perampanel 4mg	Perampanel 8 mg
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<b>Participants Analyzed</b> [Units: Participants]	184	180	172	169
<b>Percent Change in the 28-day Seizure Frequency From Baseline to the End of the Double-blind Phase (Titration and Maintenance Phases)</b> [Units: Percent Change] Median (Full Range)	-10.69 (-100.0 to 420.6)	-13.63 (-100.0 to 346.3)	-23.33 (-100.0 to 416.0)	-30.80 (-100.0 to 390.6)

No statistical analysis provided for Percent Change in the 28-day Seizure Frequency From Baseline to the End of the Double-blind Phase (Titration and Maintenance Phases)

2. Secondary: Responder Rate [ Time Frame: Baseline (Pre-randomization) through Week 19 ]

<b>Measure Type</b>	Secondary
<b>Measure Title</b>	Responder Rate
<b>Measure Description</b>	The responder rate for the Full ITT Analysis Set from the maintenance LOCF (Last Observation Carried Forward). A responder was a subject who had a 50 percent or greater reduction in seizure frequency per 28 days from the Pre-randomization phase.
<b>Time Frame</b>	Baseline (Pre-randomization) through Week 19
<b>Safety Issue</b>	No

Population Description

Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.

Full ITT Analysis Set.

Reporting Groups

	Description
<b>Placebo</b>	Placebo over 19-weeks (during 6-week Titration phase and 13-week Maintenance phase)
<b>Perampanel 2mg</b>	Perampanel 2mg daily over 19-weeks (during 6-week Titration phase and 13-week Maintenance phase)
<b>Perampanel 4mg</b>	Perampanel 4mg maximum daily dose (Titration from 2mg to 4mg daily over 6-weeks; Maintenance at 4 mg daily over 13-weeks)
<b>Perampanel 8 mg</b>	Perampanel 8mg maximum daily dose (Titration from 2mg to 8mg daily over 6-weeks; Maintenance at 8 mg daily over 13-weeks)

Measured Values

	Placebo	Perampanel 2mg	Perampanel 4mg	Perampanel 8 mg
<b>Participants Analyzed</b> [Units: Participants]	184	180	172	169
<b>Responder Rate</b> [Units: Percentage of Participants]				
<b>Responders (Yes)</b>	17.9	20.6	28.5	34.9
<b>Non-Responders (No)</b>	82.1	79.4	71.5	65.1

No statistical analysis provided for Responder Rate

3. Secondary: Percent Change in the 28-day Complex Partial Plus Secondarily Generalized Seizure Frequency From Baseline to the End of the Double-blind Phase (Titration and Maintenance Phases) [ Time Frame: Baseline (Pre-randomization) through Week 19 ]

<b>Measure Type</b>	Secondary
<b>Measure Title</b>	Percent Change in the 28-day Complex Partial Plus Secondarily Generalized Seizure Frequency From Baseline to the End of the Double-blind Phase (Titration and Maintenance Phases)
<b>Measure Description</b>	Percent Change in the Seizure frequency per 28 days was derived from the information recorded in the subject diaries.
<b>Time Frame</b>	Baseline (Pre-randomization) through Week 19
<b>Safety Issue</b>	No

**Population Description**

Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.

Full ITT Analysis Set

**Reporting Groups**

	Description
<b>Placebo</b>	Placebo over 19-weeks (during 6-week Titration phase and 13-week Maintenance phase)
<b>Perampanel 2mg</b>	Perampanel 2mg daily over 19-weeks (during 6-week Titration phase and 13-week Maintenance phase)
<b>Perampanel 4mg</b>	Perampanel 4mg maximum daily dose (Titration from 2mg to 4mg daily over 6-weeks; Maintenance at 4 mg daily over 13-weeks)
<b>Perampanel 8 mg</b>	Perampanel 8mg maximum daily dose (Titration from 2mg to 8mg daily over 6-weeks; Maintenance at 8 mg daily over 13-weeks)

**Measured Values**

	Placebo	Perampanel 2mg	Perampanel 4mg	Perampanel 8 mg
<b>Participants Analyzed</b> [Units: Participants]	169	167	157	154
<b>Percent Change in the 28-day Complex Partial Plus Secondarily Generalized Seizure Frequency From Baseline to the End of the Double-blind Phase (Titration and Maintenance Phases)</b> [Units: Percent Change] Median (Full Range)	-17.63 (-100.0 to 602.9)	-20.50 (-100.0 to 13744.2)	-31.18 (-100.0 to 416.0)	-38.69 (-100.0 to 583.3)

No statistical analysis provided for Percent Change in the 28-day Complex Partial Plus Secondarily Generalized Seizure Frequency From Baseline to the End of the Double-blind Phase (Titration and Maintenance Phases)

**► Serious Adverse Events**

 Hide Serious Adverse Events

<b>Time Frame</b>	From the time the subject signed the informed consent form to 30 days after the last dose of the study drug.
<b>Additional Description</b>	Adverse events were assessed at clinical visits based on the subject's diary, vitals, weight, physical examination, neurological exam, and laboratory evaluations; and by telephone interviews/contact.

**Reporting Groups**

	Description
<b>Placebo</b>	Placebo over 19-weeks (during 6-week Titration phase and 13-week Maintenance phase)
<b>Perampanel 2mg</b>	Perampanel 2mg daily over 19-weeks (during 6-week Titration phase and 13-week Maintenance phase)
<b>Perampanel 4mg</b>	Perampanel 4mg maximum daily dose (Titration from 2mg to 4mg daily over 6-weeks; Maintenance at 4 mg daily over 13-weeks)
<b>Perampanel 8 mg</b>	Perampanel 8mg maximum daily dose (Titration from 2mg to 8mg daily over 6-weeks; Maintenance at 8 mg daily over 13-weeks)

**Serious Adverse Events**

	Placebo	Perampanel 2mg	Perampanel 4mg	Perampanel 8 mg
<b>Total, serious adverse events</b>				
<b># participants affected / at risk</b>	<b>9/185 (4.86%)</b>	<b>6/180 (3.33%)</b>	<b>6/172 (3.49%)</b>	<b>6/169 (3.55%)</b>
<b>Endocrine disorders</b>				
<b>Goitre <sup>1</sup></b>				
<b># participants affected / at risk</b>	<b>0/185 (0.00%)</b>	<b>1/180 (0.56%)</b>	<b>0/172 (0.00%)</b>	<b>0/169 (0.00%)</b>
<b>Eye disorders</b>				
<b>Conjunctivitis allergic <sup>1</sup></b>				
<b># participants affected / at risk</b>	<b>0/185 (0.00%)</b>	<b>0/180 (0.00%)</b>	<b>1/172 (0.58%)</b>	<b>0/169 (0.00%)</b>
<b>Iritis <sup>1</sup></b>				
<b># participants affected / at risk</b>	<b>0/185 (0.00%)</b>	<b>0/180 (0.00%)</b>	<b>1/172 (0.58%)</b>	<b>0/169 (0.00%)</b>
<b>Hepatobiliary disorders</b>				
<b>Cholelithiasis <sup>1</sup></b>				
<b># participants affected / at risk</b>	<b>0/185 (0.00%)</b>	<b>0/180 (0.00%)</b>	<b>1/172 (0.58%)</b>	<b>0/169 (0.00%)</b>
<b>Infections and infestations</b>				
<b>Appendicitis <sup>1</sup></b>				
<b># participants affected / at risk</b>	<b>0/185 (0.00%)</b>	<b>0/180 (0.00%)</b>	<b>0/172 (0.00%)</b>	<b>1/169 (0.59%)</b>
<b>Wound infection <sup>1</sup></b>				
<b># participants affected / at risk</b>	<b>1/185 (0.54%)</b>	<b>0/180 (0.00%)</b>	<b>0/172 (0.00%)</b>	<b>1/169 (0.59%)</b>
<b>Bronchitis <sup>1</sup></b>				
<b># participants affected / at risk</b>	<b>1/185 (0.54%)</b>	<b>0/180 (0.00%)</b>	<b>0/172 (0.00%)</b>	<b>0/169 (0.00%)</b>
<b>Orchitis <sup>1</sup></b>				
<b># participants affected / at risk</b>	<b>1/185 (0.54%)</b>	<b>0/180 (0.00%)</b>	<b>0/172 (0.00%)</b>	<b>0/169 (0.00%)</b>
<b>Injury, poisoning and procedural complications</b>				
<b>Ankle fracture <sup>1</sup></b>				
<b># participants affected / at risk</b>	<b>0/185 (0.00%)</b>	<b>1/180 (0.56%)</b>	<b>0/172 (0.00%)</b>	<b>0/169 (0.00%)</b>
<b>Contusion <sup>1</sup></b>				
<b># participants affected / at risk</b>	<b>0/185 (0.00%)</b>	<b>0/180 (0.00%)</b>	<b>0/172 (0.00%)</b>	<b>1/169 (0.59%)</b>
<b>Head injury <sup>1</sup></b>				
<b># participants affected / at risk</b>	<b>0/185 (0.00%)</b>	<b>0/180 (0.00%)</b>	<b>0/172 (0.00%)</b>	<b>1/169 (0.59%)</b>
<b>Post concussion syndrome <sup>1</sup></b>				
<b># participants affected / at risk</b>	<b>0/185 (0.00%)</b>	<b>0/180 (0.00%)</b>	<b>0/172 (0.00%)</b>	<b>1/169 (0.59%)</b>
<b>Rib fracture <sup>1</sup></b>				
<b># participants affected / at risk</b>	<b>0/185 (0.00%)</b>	<b>0/180 (0.00%)</b>	<b>0/172 (0.00%)</b>	<b>1/169 (0.59%)</b>

Road traffic accident <sup>1</sup>				
# participants affected / at risk	0/185 (0.00%)	0/180 (0.00%)	0/172 (0.00%)	1/169 (0.59%)
Traumatic brain injury <sup>1</sup>				
# participants affected / at risk	1/185 (0.54%)	0/180 (0.00%)	0/172 (0.00%)	0/169 (0.00%)
Metabolism and nutrition disorders				
Diabetes mellitus <sup>1</sup>				
# participants affected / at risk	1/185 (0.54%)	0/180 (0.00%)	0/172 (0.00%)	0/169 (0.00%)
Musculoskeletal and connective tissue disorders				
Bone erosion <sup>1</sup>				
# participants affected / at risk	0/185 (0.00%)	0/180 (0.00%)	0/172 (0.00%)	1/169 (0.59%)
Soft tissue necrosis <sup>1</sup>				
# participants affected / at risk	0/185 (0.00%)	0/180 (0.00%)	0/172 (0.00%)	1/169 (0.59%)
Neoplasms benign, malignant and unspecified (incl cysts and polyps)				
Benign lung neoplasm <sup>1</sup>				
# participants affected / at risk	0/185 (0.00%)	0/180 (0.00%)	0/172 (0.00%)	1/169 (0.59%)
Nervous system disorders				
Convulsion <sup>1</sup>				
# participants affected / at risk	3/185 (1.62%)	0/180 (0.00%)	1/172 (0.58%)	0/169 (0.00%)
Dizziness <sup>1</sup>				
# participants affected / at risk	0/185 (0.00%)	0/180 (0.00%)	1/172 (0.58%)	0/169 (0.00%)
Epilepsy <sup>1</sup>				
# participants affected / at risk	1/185 (0.54%)	0/180 (0.00%)	1/172 (0.58%)	0/169 (0.00%)
Simple partial seizures <sup>1</sup>				
# participants affected / at risk	0/185 (0.00%)	0/180 (0.00%)	1/172 (0.58%)	0/169 (0.00%)
Somnolence <sup>1</sup>				
# participants affected / at risk	0/185 (0.00%)	0/180 (0.00%)	1/172 (0.58%)	0/169 (0.00%)
Tremor <sup>1</sup>				
# participants affected / at risk	0/185 (0.00%)	0/180 (0.00%)	1/172 (0.58%)	0/169 (0.00%)
Grand mal convulsion <sup>1</sup>				
# participants affected / at risk	1/185 (0.54%)	0/180 (0.00%)	0/172 (0.00%)	0/169 (0.00%)
Transient ischaemic attack <sup>1</sup>				
# participants affected / at risk	1/185 (0.54%)	0/180 (0.00%)	0/172 (0.00%)	0/169 (0.00%)
Psychiatric disorders				
Aggression <sup>1</sup>				
# participants affected / at risk	0/185 (0.00%)	1/180 (0.56%)	0/172 (0.00%)	0/169 (0.00%)
Confusional state <sup>1</sup>				
# participants affected / at risk	0/185 (0.00%)	1/180 (0.56%)	0/172 (0.00%)	0/169 (0.00%)
Delirium <sup>1</sup>				
# participants affected / at risk	0/185 (0.00%)	1/180 (0.56%)	0/172 (0.00%)	0/169 (0.00%)
Renal and urinary disorders				
Nephrolithiasis <sup>1</sup>				
# participants affected / at risk	0/185 (0.00%)	1/180 (0.56%)	0/172 (0.00%)	0/169 (0.00%)
Skin and subcutaneous tissue disorders				

Ecchymosis				
# participants affected / at risk	0/185 (0.00%)	0/180 (0.00%)	0/172 (0.00%)	1/169 (0.59%)
Surgical and medical procedures				
Medical device removal <sup>1</sup>				
# participants affected / at risk	0/185 (0.00%)	0/180 (0.00%)	0/172 (0.00%)	1/169 (0.59%)
Vascular disorders				
Aortic stenosis <sup>1</sup>				
# participants affected / at risk	0/185 (0.00%)	0/180 (0.00%)	0/172 (0.00%)	1/169 (0.59%)

<sup>1</sup> Term from vocabulary, MedDRA V. 13.0

## Other Adverse Events

 Hide Other Adverse Events

Time Frame	From the time the subject signed the informed consent form to 30 days after the last dose of the study drug.
Additional Description	Adverse events were assessed at clinical visits based on the subject's diary, vitals, weight, physical examination, neurological exam, and laboratory evaluations; and by telephone interviews/contact.

### Frequency Threshold

Threshold above which other adverse events are reported	5
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### Reporting Groups

	Description
Placebo	Placebo over 19-weeks (during 6-week Titration phase and 13-week Maintenance phase)
Perampanel 2mg	Perampanel 2mg daily over 19-weeks (during 6-week Titration phase and 13-week Maintenance phase)
Perampanel 4mg	Perampanel 4mg maximum daily dose (Titration from 2mg to 4mg daily over 6-weeks; Maintenance at 4 mg daily over 13-weeks)
Perampanel 8 mg	Perampanel 8mg maximum daily dose (Titration from 2mg to 8mg daily over 6-weeks; Maintenance at 8 mg daily over 13-weeks)

### Other Adverse Events

	Placebo	Perampanel 2mg	Perampanel 4mg	Perampanel 8 mg
Total, other (not including serious) adverse events				
# participants affected / at risk	48/185 (25.95%)	61/180 (33.89%)	66/172 (38.37%)	79/169 (46.75%)
General disorders				
Fatigue <sup>1</sup>				
# participants affected / at risk	5/185 (2.70%)	8/180 (4.44%)	13/172 (7.56%)	9/169 (5.33%)
Gait disturbance <sup>1</sup>				
# participants affected / at risk	2/185 (1.08%)	1/180 (0.56%)	2/172 (1.16%)	9/169 (5.33%)
Infections and infestations				
Nasopharyngitis <sup>1</sup>				
# participants affected / at risk	3/185 (1.62%)	7/180 (3.89%)	9/172 (5.23%)	3/169 (1.78%)
Upper respiratory tract infection <sup>1</sup>				
# participants affected / at risk	5/185 (2.70%)	11/180 (6.11%)	6/172 (3.49%)	3/169 (1.78%)

Nervous system disorders				
Dizziness <sup>1</sup>				
# participants affected / at risk	18/185 (9.73%)	18/180 (10.00%)	28/172 (16.28%)	45/169 (26.63%)
Headache <sup>1</sup>				
# participants affected / at risk	16/185 (8.65%)	16/180 (8.89%)	19/172 (11.05%)	18/169 (10.65%)
Somnolence <sup>1</sup>				
# participants affected / at risk	12/185 (6.49%)	22/180 (12.22%)	15/172 (8.72%)	27/169 (15.98%)

<sup>1</sup> Term from vocabulary, MedDRA V. 13.0

## ▶ Limitations and Caveats

▢ Hide Limitations and Caveats

Limitations of the study, such as early termination leading to small numbers of participants analyzed and technical problems with measurement leading to unreliable or uninterpretable data

No text entered.

## ▶ More Information

▢ Hide More Information

### Certain Agreements:

Principal Investigators are **NOT** employed by the organization sponsoring the study.

There is **NOT** an agreement between Principal Investigators and the Sponsor (or its agents) that restricts the PI's rights to discuss or publish trial results after the trial is completed.

### Results Point of Contact:

Name/Title: Eisai Inc.

Organization: Eisai Call Center

phone: 888-422-4743

### Publications automatically indexed to this study by ClinicalTrials.gov Identifier (NCT Number):

Rosenfeld W, Conry J, Lagae L, Rozentals G, Yang H, Fain R, Williams B, Kumar D, Zhu J, Laurenza A. Efficacy and safety of perampanel in adolescent patients with drug-resistant partial seizures in three double-blind, placebo-controlled, phase III randomized clinical studies and a combined extension study. *Eur J Paediatr Neurol*. 2015 Jul;19(4):435-45. doi: 10.1016/j.ejpn.2015.02.008.

Steinhoff BJ, Ben-Menachem E, Ryvlin P, Shorvon S, Kramer L, Satlin A, Squillacote D, Yang H, Zhu J, Laurenza A. Efficacy and safety of adjunctive perampanel for the treatment of refractory partial seizures: a pooled analysis of three phase III studies. *Epilepsia*. 2013 Aug;54(8):1481-9. doi: 10.1111/epi.12212.

Krauss GL, Serratos JM, Villanueva V, Endziniene M, Hong Z, French J, Yang H, Squillacote D, Edwards HB, Zhu J, Laurenza A. Randomized phase III study 306: adjunctive perampanel for refractory partial-onset seizures. *Neurology*. 2012 May 1;78(18):1408-15. doi: 10.1212/WNL.0b013e318254473a.

Responsible Party: Eisai Inc.

ClinicalTrials.gov Identifier: NCT00700310 [History of Changes](#)

Other Study ID Numbers: E2007-G000-306

2007-006169-33 ( EudraCT Number )

Study First Received: June 17, 2008

Results First Received: October 23, 2012

Last Updated: December 17, 2015

Health Authority:

European Union: European Medicines Agency  
United States: Food and Drug Administration

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