

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 11291 PCT	FOR FURTHER ACTION		see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/US2009/050618	International filing date (day/month/year) 15/07/2009	(Earliest) Priority Date (day/month/year) 16/07/2008	
Applicant BRISTOL-MYERS SQUIBB COMPANY			

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 5 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of:

- the international application in the language in which it was filed
 a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).

c. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. **Certain claims were found unsearchable** (See Box No. II)

3. **Unity of invention is lacking** (see Box No III)

4. With regard to the **title**,

- the text is approved as submitted by the applicant
 the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- the text is approved as submitted by the applicant
 the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. _____
 as suggested by the applicant
 as selected by this Authority, because the applicant failed to suggest a figure
 as selected by this Authority, because this figure better characterizes the invention
- b. none of the figures is to be published with the abstract

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2009/050618

A. CLASSIFICATION OF SUBJECT MATTER

INV.	C07D401/12	C07D401/14	C07D413/14	A61K31/4545	A61P3/10
	A61P3/00	A61P3/04	A61P3/06	A61P9/10	A61P9/12
	A61P19/08	A61P25/02	A61P25/28	A61P31/00	A61P35/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2005/007647 A (ARENA PHARM INC [US]; JONES ROBERT M [US]; SEMPLE GRAEME [US]; XIONG Y) 27 January 2005 (2005-01-27) cited in the application claims 1,65,89	1-15
A	WO 2005/007658 A (ARENA PHARM INC [US]; JONES ROBERT M [US]; SEMPLE GRAEME [US]; XIONG Y) 27 January 2005 (2005-01-27) cited in the application claims 1,56,58	1-15
A	WO 2005/121121 A (ARENA PHARM INC [US]; JONES ROBERT M [US]; SEMPLE GRAEME [US]; XIONG Y) 22 December 2005 (2005-12-22) cited in the application claims 1,35,37	1-15
----- -/--		

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

14 October 2009

Date of mailing of the international search report

26/10/2009

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040,
Fax: (+31-70) 340-3016

Authorized officer

Brandstetter, T

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2009/050618

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2006/083491 A (ARENA PHARM INC [US]; JONES ROBERT M [US]; LEHMANN JUERG [US]; WONG AM) 10 August 2006 (2006-08-10) cited in the application claims 1,43,45 -----	1-15
X	WO 2007/003961 A (PROSIDION LTD [GB]; BRADLEY STUART EDWARD [GB]; FYFE MATTHEW COLIN THO) 11 January 2007 (2007-01-11) claims 1,18,19,22 page 1, lines 1-3 page 2, lines 3,4 page 21, lines 40,41 -----	1-10, 12-15
P, X	WO 2009/012275 A (SQUIBB BRISTOL MYERS CO [US]; WACKER DEAN A [US]; ROSSI KAREN A [US];) 22 January 2009 (2009-01-22) claims 1,17-20 -----	1-15
P, X	WO 2009/012277 A (SQUIBB BRISTOL MYERS CO [US]; WACKER DEAN A [US]; ROSSI KAREN A [US];) 22 January 2009 (2009-01-22) claims 1,16,18 -----	1-15

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2009/050618

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2005007647 A	27-01-2005	AT 380809 T	15-12-2007
		AU 2004257261 A1	27-01-2005
		BR PI0412488 A	19-09-2006
		CA 2532152 A1	27-01-2005
		DE 602004010666 T2	22-01-2009
		DK 1644357 T3	21-04-2008
		EC SP066279 A	28-07-2006
		EP 1644357 A1	12-04-2006
		ES 2298820 T3	16-05-2008
		HK 1083100 A1	11-04-2008
		HR 20080087 T3	31-03-2008
		IS 8290 A	09-02-2006
		JP 2007528856 T	18-10-2007
		KR 20060034289 A	21-04-2006
		MA 27909 A1	02-05-2006
		MX PA06000444 A	23-08-2006
		PT 1644357 E	19-03-2008
WO 2005007658 A	27-01-2005	AR 053863 A2	23-05-2007
		AU 2004257267 A1	27-01-2005
		BR PI0412689 A	03-10-2006
		CA 2532971 A1	27-01-2005
		EC SP066284 A	28-07-2006
		EP 1644375 A2	12-04-2006
		IS 8295 A	13-02-2006
		JP 2007531698 T	08-11-2007
		KR 20060056944 A	25-05-2006
		MX PA06000554 A	03-07-2006
		NZ 544200 A	31-07-2009
		US 2007072844 A1	29-03-2007
		US 2007082874 A1	12-04-2007
WO 2005121121 A	22-12-2005	AR 049293 A1	12-07-2006
		AT 415397 T	15-12-2008
		AU 2005252211 A1	22-12-2005
		BR PI0511757 A	08-01-2008
		CA 2568451 A1	22-12-2005
		CN 1997640 A	11-07-2007
		DK 1756084 T3	23-03-2009
		EC SP067066 A	26-01-2007
		EP 1756084 A2	28-02-2007
		ES 2320359 T3	21-05-2009
		HK 1097271 A1	05-06-2009
		HR 20090093 T3	31-03-2009
		JP 2008501698 T	24-01-2008
		SI 1756084 T1	30-04-2009
		US 2009036434 A1	05-02-2009
		ZA 200610095 A	28-05-2008
		WO 2006083491 A	10-08-2006
AT 381558 T	15-01-2008		
AU 2006211583 A1	10-08-2006		
BR PI0606704 A	11-03-2008		
CA 2594466 A1	10-08-2006		
CN 101115740 A	30-01-2008		
DE 602006000339 T2	22-01-2009		
DK 1732562 T3	28-04-2008		
EA 200701471 A1	28-02-2008		

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2009/050618

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2006083491 A		EP 1732562 A2	20-12-2006
		ES 2299167 T3	16-05-2008
		HK 1094542 A1	16-05-2008
		HR 20080113 T3	30-04-2008
		JP 2008526882 T	24-07-2008
		KR 20070098907 A	05-10-2007
		NI 200700169 A	25-06-2008
		PT 1732562 E	18-03-2008
		US 2006155128 A1	13-07-2006
		US 2007167473 A1	19-07-2007
		US 2007078150 A1	05-04-2007
		ZA 200705471 A	30-07-2008
WO 2007003961 A	11-01-2007	EP 1907384 A2	09-04-2008
		JP 2008545008 T	11-12-2008
		US 2009221644 A1	03-09-2009
WO 2009012275 A	22-01-2009	CL 21102008 A1	24-10-2008
		CL 21112008 A1	24-10-2008
		PE 08882009 A1	15-07-2009
		PE 04492009 A1	18-04-2009
		US 2009023702 A1	22-01-2009
		US 2009042919 A1	12-02-2009
		WO 2009012277 A1	22-01-2009
WO 2009012277 A	22-01-2009	CL 21102008 A1	24-10-2008
		CL 21112008 A1	24-10-2008
		PE 08882009 A1	15-07-2009
		PE 04492009 A1	18-04-2009
		US 2009023702 A1	22-01-2009
		US 2009042919 A1	12-02-2009
		WO 2009012275 A1	22-01-2009