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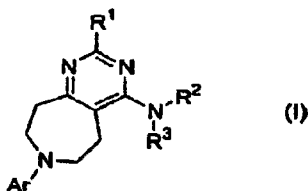
— with international search report

(88) Date of publication of the international search report:

15 November 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: 6,7,8, 9 -TETRAHYDRO- 5H- PYRIMIDO [4, 5-D] AZEPIN-4-YL] -AMINE DERIVATIVES AS MODULATORS OF TRPV1 FOR THE TREATMENT OF PAIN



(57) Abstract: Certain tetrahydro-pyrimidoazepine compounds are described, which are useful as TRPV1 modulators. Such compounds may be used in pharmaceutical compositions and methods for the treatment of disease states, disorders, and conditions mediated by TRPV1. Thus, the compounds may be administered to treat, e.g., pain, itch, cough, asthma, or inflammatory bowel disease.

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2007/007166

A. CLASSIFICATION OF SUBJECT MATTER

INV. C07D487/04 A61K31/55 A61K31/519 A61P25/04 A61P17/00
A61P11/14 A61P11/06 A61P1/00

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 A61K A61P

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, WPI Data, 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 2004/043367 A (SQUIBB BRISTOL MYERS CO [US]) 27 May 2004 (2004-05-27) pages 16,45,46, columns , pages 48,49 examples E1.4,E2-E32	1-115
A	WO 2006/024776 A (SANOFI AVENTIS [FR]) 9 March 2006 (2006-03-09) page 1; claim 1	1-115
P,A	WO 2006/044762 A (BAYER PHARMACEUTICALS CORP [US]) 27 April 2006 (2006-04-27) examples claim 1	1-115
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☒ 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.
- *G* document member of the same patent family

Date of the actual completion of the international search

22 August 2007

Date of mailing of the international search report

31/08/2007

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No

PCT/US2007/007166

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,A	WO 2007/019083 A (JANSSEN PHARMACEUTICA NV [BE]) 15 February 2007 (2007-02-15) page 27 - page 29 examples 46-69 claims 30,34,36,38 -----	1-115

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2007/007166

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 108-115 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2007/007166

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 2004043367	A	27-05-2004	AU 2003291310 A1	03-06-2004
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WO 2007019083	A	15-02-2007	NONE	