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Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

Published:

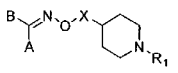
— *with international search report (Art. 21(3))*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

(88) Date of publication of the international search report:
15 April 2010

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(54) Title: OXIME DERIVATIVES, PROCESS FOR THEIR PREPARATION, PHARMACEUTICAL COMPOSITION CONTAINING THE SAME AND MEDICINAL USE THEREOF



(I)

(57) Abstract: The present invention relates to novel oxime derivatives of the general formula (I), their tautomeric forms, their stereoisomers, their pharmaceutically acceptable salts, pharmaceutical compositions containing them, methods for their preparation, use of these compounds in medicine and the intermediates involved in their preparation.

INTERNATIONAL SEARCH REPORT

International application No
PCT/IN2009/000227

A. CLASSIFICATION OF SUBJECT MATTER
INV. C07D211/22 C07D413/14 C07D401/12 C07D401/14 C07D413/04
A61K31/4523 A61P3/00 A61P9/00

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, CHEM ABS Data, BEILSTEIN Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2005/097129 A (TAKEDA PHARMACEUTICAL [JP]; HORIGUCHI YOSHIAKI [JP]; IMOTO HIROSHI [JP]) 20 October 2005 (2005-10-20) page 25, line 3 to 20; page 28, line 19 to page 29, line 8; page 33, line 8 to page 34, line 26; examples 90, 104, 105; claims	1,9-18
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[X] Further documents are listed in the continuation of Box C.

[X] 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	Date of mailing of the international search report
11 December 2009	24/02/2010

Name and mailing address of the ISA/	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Rufet, Jacques

3

Form PCT/ISA/210 (second sheet) (April 2005)

INTERNATIONAL SEARCH REPORT

International application No
PCT/IN2009/000227

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE CA [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; KIDO, HIROSHI: "Anti-influenza viral agent comprising TNF-.alpha. inhibitor" XP002559973 retrieved from STN Database accession no. 2007:1396243 abstract & WO 2007/139150 A1 (THE UNIVERSITY OF TOKUSHIMA, JAPAN; ONO PHARMACEUTICAL CO., LTD.) 6 December 2007 (2007-12-06) -----	1,4,9-11
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X	WO 2007/090434 A1 (BAYER CROPSCIENCE A.-G., GERMANY) 16 August 2007 (2007-08-16) claim 1; examples 51,57,59 -----	1,9,10
X	DATABASE CA [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; CEREDA, ENZO ET AL: "Preparation of azacyclic and azabicyclic hydroxylamines as muscarinic receptor agonists" XP002559974 retrieved from STN Database accession no. 1995:293707 abstract & WO 94/00448 A1 (BOEHRINGER INGELHEIM ITALIA S.P.A., ITALY) 6 January 1994 (1994-01-06) -----	1
X	DATABASE CA [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; LYLE, ROBERT E. ET AL: "Reactions of 1-methyl-4-halo-4-piperidyl phenyl ketones" XP002559975 retrieved from STN Database accession no. 1960:50427 abstract & JOURNAL OF ORGANIC CHEMISTRY , 24, 333-8 CODEN: JOCEAH; ISSN: 0022-3263, 1959, -----	1

3

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IN2009/000227

Box No. 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:

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 No. 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:

see additional sheet

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 fees, this Authority did not invite payment of additional fees.

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.:

see additional sheet(s)

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.

☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1, 4, 5, 7-18 all partially

   Provision of compounds of general formula(I) wherein X is a bond useful for the treatment of obesity, diabetes and related metabolic disorders.

   ---

2. claims: 1, 4, 5, 7-18 all partially and 20, 21 complete

   Provision of compounds of general formula(I) wherein X is a group represented by Y-Z whereby Y is a linear or branched (C1-C6)alkyl useful for the treatment of obesity, diabetes and related metabolic disorders.

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3. claims: 1, 4, 5, 7-18 all partially and 2, 3, 6, 19 complete

   Provision of compounds of general formula(I) wherein X is a group represented by Y-Z whereby Y is a single or fused ring selected from aryl, heteroaryl or cycloalkyl, useful for the treatment of obesity, diabetes and related metabolic disorders.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/IN2009/000227

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