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(71) Applicant (for all designated States except US): **TAKEDA PHARMACEUTICAL COMPANY LIMITED** [JP/JP];
1-1, Doshomachi 4-chome Chuo-ku, Osaka-shi, Osaka
541-0045 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DONG, Qing**
[CN/US]; 12935 Flintwood Way, San Diego, CA 92130
(US). **KANOUNI, Toufike** [FR/US]; 3675 Mississippi
Street, San Diego, CA 92104 (US). **WALLACE, Michael**
B. [US/US]; 3766 Tomahawk Lane, San Diego, CA 92117
(US).

(74) Agents: **BRUSTEIN, Mitchell R.** et al.; Takeda San
Diego, Inc., 10410 Science Center Drive, San Diego, CA
92121 (US).

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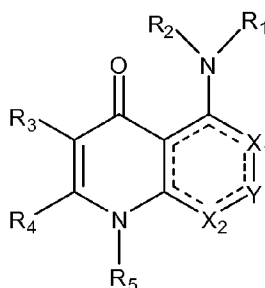
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(54) Title: MAPK/ERK KINASE INHIBITORS



(I)

(57) Abstract: Compounds are provided for use with MEK that comprise: formula (I) wherein the variables are as defined herein. Also provided are pharmaceutical compositions, kits and articles of manufacture comprising such compounds; methods and intermediates useful for making the compounds; and methods of using said compounds.

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2008/057276

A. CLASSIFICATION OF SUBJECT MATTER

INV. C07D401/12 C07D215/56 C07D215/38 C07D491/052

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, BEILSTEIN Data, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2004/056781 A (YUHAN CORP [KR]; LEE TAI-AU [KR]; PARK NAM-JIN [KR]; KHOO JA-HEOUK [KR] 8 July 2004 (2004-07-08) claim 1	32
X	EP 1 319 656 A (LYNCHEM CO LTD [CN]) 18 June 2003 (2003-06-18) page 5, line 1 - line 27	33
A	ENGLISH J M ET AL: "Pharmacological inhibitors of MAPK pathways" TRENDS IN PHARMACOLOGICAL SCIENCES, ELSEVIER, HAYWARTH, GB, vol. 23, no. 1, 1 January 2002 (2002-01-01), pages 40-45, XP004333247 ISSN: 0165-6147 the whole document	1-22



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.

Z document member of the same patent family

Date of the actual completion of the international search

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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

Timmermans, Michel

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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 94/10163 A (PROCTER & GAMBLE [US]) 11 May 1994 (1994-05-11) the whole document -----	1-22

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2008/057276

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: 1-22

The compounds of claim 1 and dependant claim, wherein the bicyclic backbone is present.

2. claim: 32

The intermediate compounds of claim 32

3. claim: 33

The intermediate compounds of claim 33

4. claim: 34

The intermediate compounds of claim 34

5. claim: 35

The intermediate compounds of claim 35

6. claim: 36

The intermediate compounds of claim 36

7. claim: 37

The intermediate compounds of claim 37

INTERNATIONAL SEARCH REPORT

International application No

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