



(51) International Patent Classification:

C07D 417/04 (2006.01) **C07D 491/147** (2006.01)
C07D 417/14 (2006.01) **A61K 31/427** (2006.01)
C07D 471/04 (2006.01) **A61K 31/496** (2006.01)
C07D 487/04 (2006.01) **A61K 31/5377** (2006.01)
C07D 495/04 (2006.01) **A61K 31/454** (2006.01)
C07D 495/22 (2006.01) **A61K 31/501** (2006.01)
C07D 513/04 (2006.01) **A61K 31/4439** (2006.01)
C07D 491/113 (2006.01)

(21) International Application Number:

PCT/IB2012/001987

(22) International Filing Date:

7 June 2012 (07.06.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/520,256 7 June 2011 (07.06.2011) US
 61/562,700 22 November 2011 (22.11.2011) US
 61/640,139 30 April 2012 (30.04.2012) US

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(81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

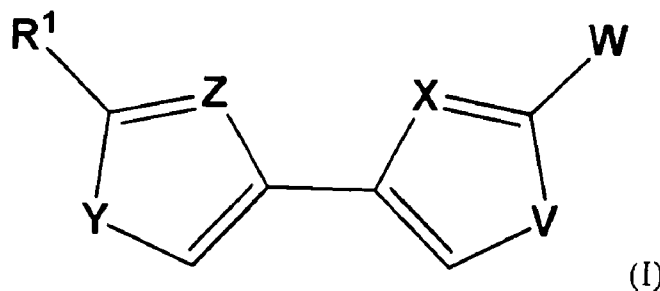
(84) **Designated States** (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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))

[Continued on next page]

(54) **Title:** COMPOSITIONS AND METHODS FOR MODULATING A KINASE



(57) **Abstract:** The invention relates to compounds of formula (1) and methods for modulating one or more components of a kinase signaling cascade.



(88) Date of publication of the international search report:
28 March 2013

Previous Correction:
see Notice of 7 February 2013

(15) Information about Correction:

INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2012/001987

A. CLASSIFICATION OF SUBJECT MATTER

INV. C07D417/04 C07D417/14 C07D471/04 C07D487/04 C07D495/04
C07D495/22 C07D513/04 C07D491/113 C07D491/147 A61K31/427
A61K31/496 A61K31/5377 A61K31/454 A61K31/501 A61K31/4439

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 practicable, search terms used)

EPO-Internal, CHEM ABS Data, WPI 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 2008/027584 A2 (VERTEX PHARMA [US]; WANG TIANSHENG [US]; GREEN JEREMY [US]; CORNEBISE) 6 March 2008 (2008-03-06) compounds of examples; page 1; claims 1,37,38 -----	1-175
A	WO 00/33841 A1 (SMITHKLINE BEECHAM CORP [US]; LAGO MARIA A [US]) 15 June 2000 (2000-06-15) page 1, paragraph 1; claims 1,6; examples 9-11 ----- -/--	1-175



Further documents are listed in the continuation of Box C.



See patent family annex.

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"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

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Date of the actual completion of the international search

13 December 2012

Date of mailing of the international search report

18/01/2013

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2012/001987

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X	----- DATABASE REGISTRY [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 25 May 2010 (2010-05-25), XP002689155, Database accession no. 1225040-09-4 compound rn: 1225040-09-4	1-7,9, 11,12, 20-27, 37, 41-46, 48,49, 51-53, 59,60
X	----- DATABASE REGISTRY [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 13 February 2007 (2007-02-13), XP002689156, Database accession no. 920727-51-1 compound rn: 920727-51-1 -----	1-7,9, 11,12, 20-27, 37, 41-46, 48,49, 51-53, 59,60

INTERNATIONAL SEARCH REPORT

International application No

PCT/IB2012/001987

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 REGISTRY [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 2 August 2009 (2009-08-02), XP002689157, Database accession no. 1171479-17-6 compound rn: 1171479-17-6 -----	1-5, 13-16, 19-25, 62-65, 67, 72-75, 79-81, 84,90
X	DATABASE REGISTRY [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 20 March 2008 (2008-03-20), XP002689158, Database accession no. 1009224-99-0 compound rn:1009224-99-0 -----	1-5, 13-16, 19-25, 62-65, 67, 72-75, 79-81, 84,90
X	DATABASE REGISTRY [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 19 March 2008 (2008-03-19), XP002689159, Database accession no. 1008917-13-2 compound rn: 1008917-13-2 -----	1-5, 13-16, 19-25, 62-65, 67-75, 79-81, 84-88,90
X	DATABASE REGISTRY [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 30 March 2006 (2006-03-30), XP002689160, Database accession no. 878580-71-3 compound rn: 878580-71-3 -----	1-5, 13-16, 20-25, 62-65, 67,70, 72-75, 79-81, 84-88,90
X	DATABASE REGISTRY [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 13 February 2007 (2007-02-13), XP002689161, Database accession no. 920630-86-0 compound rn: 920630-86-0 ----- -/--	1-5, 13-16, 18, 20-25, 62-65, 67, 72-75, 79-81, 84-86,90

INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2012/001987

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 REGISTRY [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 2 March 2007 (2007-03-02), XP002689162, Database accession no. 924412-45-3 compound rn: 924412-45-3 -----	1-5, 13-16, 20-25, 62-65, 67,68, 73-75, 79-81, 84,85, 87,90
X	DATABASE REGISTRY [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 13 February 2007 (2007-02-13), XP002689163, Database accession no. 920589-44-2 compound rn: 920589-44-2 -----	1-5, 13-16, 18, 20-25, 62-65, 67,68, 73-75, 79,80, 84-86,90
X	DATABASE REGISTRY [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 30 March 2006 (2006-03-30), XP002689164, Database accession no. 878564-95-5 compound rn: 878564-95-5 -----	1-5, 13-17, 20-25, 62-65, 67,68, 70,73, 74, 78-81, 84-86,90
X	DATABASE REGISTRY [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 9 October 2007 (2007-10-09), XP002689165, Database accession no. 949641-88-7 compound rn: 949641-88-7 -----	1-5, 13-16, 18, 20-25, 62-65, 67,68, 73-75, 79,80, 84-86,90
X	DATABASE REGISTRY [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 19 March 2008 (2008-03-19), XP002689166, Database accession no. 1008916-98-0 compound rn: 1008916-98-0 ----- -/--	1-5, 13-16, 20-25, 62-65, 67,68, 73-75, 79,80, 84-86,90

INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2012/001987

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 REGISTRY [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 20 March 2008 (2008-03-20), XP002689167, Database accession no. 1009225-18-6 compound rn: 1009225-18-6 -----	1-5, 13-16, 20-25, 62-65, 67,68, 73-75, 79,80, 84,85, 87,90
X	DATABASE REGISTRY [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 20 March 2008 (2008-03-20), XP002689168, Database accession no. 1009195-91-8 compound rn: 1009195-91-8 -----	1-5, 13-16, 20-25, 62-65, 67,68, 73,74, 79-81, 84-86,90
X	DATABASE REGISTRY [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 10 December 2008 (2008-12-10), XP002689169, Database accession no. 1082576-16-6 compound rn: 1082576-16-6 -----	1
X	DATABASE REGISTRY [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 9 December 2008 (2008-12-09), XP002689170, Database accession no. 1082489-74-7 compound rn: 1082489-74-7 -----	1
X	DATABASE REGISTRY [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 9 December 2008 (2008-12-09), XP002689171, Database accession no. 1082414-55-8 compound rn: 1082414-55-8 -----	1
X	DATABASE REGISTRY [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 9 December 2008 (2008-12-09), XP002689172, Database accession no. 1082312-41-1 compound rn: 1082312-41-1 ----- -/--	1

INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2012/001987

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X	DATABASE REGISTRY [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 25 May 2011 (2011-05-25), XP002689175, Database accession no. 1300397-30-1 compound rn: 1300397-30-1 -----	1-4
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X	DATABASE REGISTRY [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 20 April 2007 (2007-04-20), XP002689178, Database accession no. 931076-94-7 compound rn: 931076-94-7 -----	1-4,6-8, 20-26, 30,31, 38,39, 42-44,90
X	DATABASE REGISTRY [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 22 April 2007 (2007-04-22), XP002689179, Database accession no. 931598-40-2 compound rn: 931598-40-2 -----	1-4,6, 20-26, 33,34, 36, 42-47,90

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2012/001987

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