## (19) World Intellectual Property Organization

International Bureau



# ) | 1881 | 1881 | 1881 | 1881 | 1881 | 1881 | 1881 | 1881 | 1881 | 1881 | 1881 | 1881 | 1881 | 1881 | 1881 | 1

(43) International Publication Date 27 April 2006 (27.04.2006)

CT

# (10) International Publication Number WO 2006/044753 A3

(51) International Patent Classification: A61P 25/00 (2006.01) C07D 243/14 (2006.01) A61K 31/55 (2006.01)

(21) International Application Number:

PCT/US2005/037184

(22) International Filing Date: 18 October 2005 (18.10.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 60/620,189 19 October 2004 (19.10.2004) US

(71) Applicant (for all designated States except US): SMITHKLINE BEECHAM CORPORATION [US/US]; One Franklin Plaza, PO Box 7929, Philadelphia, PA 19101 (US).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): ALBERTI, Michael, John [US/US]; c/o GlaxoSmithKline, Corporate Intellectual Property Dept, Five Moore Drive, PO Box 13398, Research Triangle Park, NC 27709 (US). JUNG, David, Kendall [US/US]; c/o GlaxoSmithKline, Corporate Intellectual Property Dept, Five Moore Drive, PO Box 13398, Research Triangle Park, NC 27709 (US).
- (74) Agents: DADSWELL, Charles, E et al.; c/oGlaxo-SmithKline, Corporate Intellectual Property Dept, Five Moore Drive, PO Box 13398, Research Triangle Park, NC 27709 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### **Declarations under Rule 4.17:**

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))
- of inventorship (Rule 4.17(iv))

#### **Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 17 August 2006

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: CHEMICAL COMPOUNDS

(57) Abstract: The present invention relates to dihydrobenzodiazepine derivatives, compositions and medicaments containing the same, as well as processes for the preparation and use of such compounds, compositions and medicaments. Such dihydrobenzodiazepine derivatives are useful in the treatment of diseases associated with inappropriate ROCK kinase.



### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/37184

A. CLASSIFICATION OF SUBJECT MATTER IPC: A61P 25/00(2006.01);A61K 31/55(2006.01);C07D 243/14(2006.01)			
11 C. A011 25/00(2000.01),21011151/05(2000.01),007/2 2 18/11 (2000.01)			
USPC: 514/220;540/573			
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) U.S.: 514/220; 540/573			
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) CAS ONLINE			
C. DOCI	UMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.
A	WO 96/23790 A1 (F. hOFFMANN-LA ROCHE AG) 08 August 1996 (08.08.1996), see		1-9
Α	pages 10-12. U.S. 3,202,665 (METLESICS et al.) 24 August 1965 (24.08.1962), see entire document.		1-9
Further	documents are listed in the continuation of Box C.	See patent family annex.	
	pecial categories of cited documents:	"T" later document published after the inte- date and not in conflict with the applic	
	t defining the general state of the art which is not considered to be of relevance	principle or theory underlying the inve	
"E" earlier ap	plication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be consider when the document is taken alone	
	t which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of particular relevance; the o	laimed invention cannot be
specified)	•	considered to involve an inventive step combined with one or more other such	
"O" document	t referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the	
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family	
Date of the actual completion of the international search		Date of mailing of the international search report	
01 May 2006 (01.05.2006)		20 JUN 2006	
Name and mailing address of the ISA/US  Mail Stop PCT. Attn: ISA/US		Authorized officer	
Commissioner for Patents		Brenda L. Coleman	
Ale	. Box 1450 xandria, Virginia 22313-1450	Telephone No. 571-272-1600	
Facsimile No. (571) 273-3201			

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