(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
3 July 2008 (03.07.2008)

PCT

(10) International Publication Number
WO 2008/079814 A3

(51) International Patent Classification:
C07D 471/04 (2006.01) *A61P 35/00* (2006.01)
A61K 31/4375 (2006.01)

(21) International Application Number:
PCT/US2007/087913

(22) International Filing Date:
18 December 2007 (18.12.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/870,913 20 December 2006 (20.12.2006) US

(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, California 92130 (US). **GONG, Xianchang** [US/US]; 9505 Genesee Avenue Apt. 524, San Diego, CA 92121 (US). **KALDOR, Stephen W.** [US/US]; 4887 Del Mar Mesa Road, Del Mar, CA 92130 (US). **KANOUNI, Toufike** [US/US]; 615 Stratford Court Apt. 1, Del Mar, CA 92014 (US). **SCORAH, Nicholas** [GB/US]; 4623 Torrey Circle #Q303, San Diego, CA 92130 (US). **WALLACE, Michael B.** [US/US]; 3766 Tomahawk Lane, San Diego, CA 92117 (US). **ZHOU, Feng** [US/US]; 1820 Apache Glen, Escondido, CA 92027 (US).

(74) Agents: **WEITZ, David J.** et al.; Takeda San Diego, Inc., 10410 Science Center Drive, San Diego, CA 92121 (US).

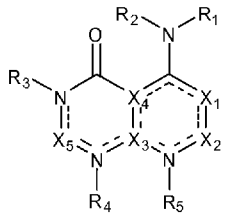
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, 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, 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, MT, 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).

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*
— *with sequence listing part of description published separately in electronic form and available upon request from the International Bureau*

(88) Date of publication of the international search report:
4 September 2008

(54) Title: MAPK/ERK KINASE INHIBITORS



(I)

(57) Abstract: Compounds of the following formula are provided for use with MEK (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.

WO 2008/079814 A3