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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
23 November 2006 (23.11.2006)

PCT

(10) International Publication Number
WO 2006/125101 A3

(51) International Patent Classification:
C07D 487/04 (2006.01) *A61P 35/00* (2006.01)
A61K 31/4985 (2006.01)

(21) International Application Number:
PCT/US2006/019280

(22) International Filing Date: 18 May 2006 (18.05.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/683,175 20 May 2005 (20.05.2005) US

(71) Applicant *(for all designated States except US)*: **ARRAY BIOPHARMA INC.** [US/US]; 3200 Walnut Street, Boulder, CO 80301 (US).

(71) Applicants and
(72) Inventors: **LAIRD, Ellen** [US/US]; 2435 Mallard Circle, Longmont, CO 80504 (US). **TOPALOV, George** [BG/US]; 1697 Reliance Circle, Superior, CO 80027 (US). **LYSSIKATOS, Joseph, P.** [US/US]; 1720 Eldorado Court, Superior, CO 80027 (US). **WELCH, Mike** [US/US]; 4834 W. 117th Avenue, Westminster, CO 80031 (US). **GRINA, Jonas** [US/US]; 2480 Clayton Circle, Superior, CO 80027 (US). **HANSEN, Josh** [US/US]; 2331 Steel Street, Longmont, CO 80501 (US). **NEWHOUSE, Brad** [US/US]; 226 Berthoud Trail, Broomfield, CO 80020 (US).

(74) Agents: **HARRIS, Robert, J.** et al.; Viksnins Harris & Padys PLLP, P.O. Box 111098, St. Paul, MN 55111-1098 (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, KN, 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.

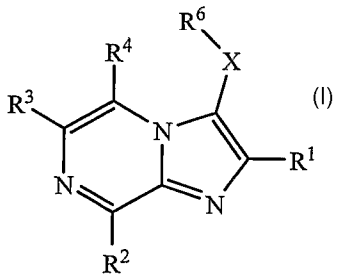
(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, 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).

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:
29 March 2007

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: RAF INHIBITOR COMPOUNDS AND METHODS OF USE THEREOF



(I)

(57) Abstract: Compounds of Formula (I) are useful for inhibiting Raf kinase and for treating disorders mediated thereby. Methods of using compounds of Formula (I), and stereoisomers, tautomers, solvates and pharmaceutically acceptable salts thereof, for in vitro, in situ, and in vivo diagnosis, prevention or treatment of such disorders in mammalian cells, or associated pathological conditions are disclosed.

WO 2006/125101 A3