

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
9 June 2005 (09.06.2005)

PCT

(10) International Publication Number
WO 2005/051301 A3

(51) International Patent Classification:

A61K 31/44 (2006.01) C07D 237/02 (2006.01)
A61K 31/50 (2006.01) C07D 237/26 (2006.01)
A61K 31/415 (2006.01) C07D 401/00 (2006.01)
A61K 31/501 (2006.01) C07D 413/00 (2006.01)
A61K 31/655 (2006.01) C07D 417/00 (2006.01)
C07D 231/02 (2006.01)

(74) Agents: BURTON, Carol, W. et al.; Hogan & Hartson, LLP, 1200 17th Stree, Suite 1500, Denver, CO 80202 (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, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:

PCT/US2004/039060

(22) International Filing Date:

18 November 2004 (18.11.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/523,270 19 November 2003 (19.11.2003) US

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

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MARLOW, Allison, L.** [US/US]; 286 W. Sycamore Lane, Louisville, CO 80027 (US). **WALLACE, Eli** [US/US]; P.O. Box 1727, Lyons, CO 80540 (US). **SEO, Jeongbeob** [KR/US]; 12690 Utica Circle, Broomfield, CO 80020 (US). **LYSSIKATOS, Joseph, P.** [US/US]; 1720 Eldorado Court, Superior, CO 80027 (US). **YANG, Hong, Woon** [KR/US]; 823 Maroon Peak Circle, Superior, CO 80027 (US). **BLAKE, Jim** [US/US]; 2435 Mallard Circle, Longmont, CO 80504 (US).

Published:

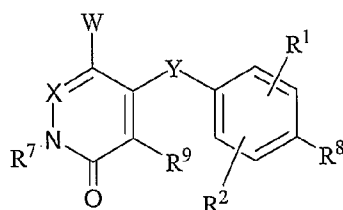
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:

18 May 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: HETEROCYCLIC INHIBITORS OF MEK AND METHODS OF USE THEREOF



(I)

(57) Abstract: Disclosed are compounds of the Formula (I) and pharmaceutically acceptable salts and prodrugs thereof, wherein R^1 , R^2 , R^7 , R^8 and R^9 , W, X and Y are as defined in the specification. Such compounds are MEK inhibitors and useful in the treatment of hyperproliferative diseases, such as cancer and inflammation, in mammals, and inflammatory conditions. Also disclosed are methods of using such compounds in the treatment of hyperproliferative diseases in mammals and pharmaceutical compositions containing such compounds.