

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
25 September 2003 (25.09.2003)

PCT

(10) International Publication Number
WO 2003/077855 A3

(51) International Patent Classification⁷: **A61K 31/5377**,
31/4439, 31/4184, C07D 413/02, 403/02, 235/14

(74) Agent: **NOE, Jeremy, E.**; McDonnell Boehnen Hulbert &
Berghoff, Suite 3200, 300 South Wacker Drive, Chicago,
IL 60606 (US).

(21) International Application Number:
PCT/US2003/007565

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, 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, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE,
SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 13 March 2003 (13.03.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/364,164 13 March 2002 (13.03.2002) US

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

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

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **WALLACE, Eli,
M.** [US/US]; P.O. Box 1727, Lyons, CO 80540 (US).
LYSSIKATOS, Joseph, P. [US/US]; 1720 Eldorado
Circle, Superior, CO 80027 (US). **HURLEY, Brian, T.**
[US/US]; 3725 Birchwood Drive, #22, Boulder, CO 80304
(US). **MARLOW, Allison, L.** [US/US]; 2722 Juniper
Avenue, #57, Boulder, CO 80304 (US).

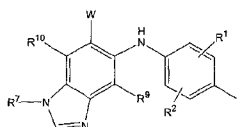
Published:

— with international search report

(88) Date of publication of the international search report:
4 March 2004

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: N3 ALKYLATED BENZIMIDAZOLE DERIVATIVES AS MEK INHIBITORS



(I)

(57) Abstract: Disclosed are compounds of the formula (I) and pharmaceutically acceptable salts and prodrugs thereof, wherein W, t, R¹, R², R⁷, R⁹, R¹⁰, R¹¹ and R¹² 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. Also disclosed is a method of using such compounds in the treatment of hyperproliferative diseases in mammals, and pharmaceutical compositions containing such compounds.



WO 2003/077855 A3