

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
27 January 2005 (27.01.2005)

PCT

(10) International Publication Number
WO 2005/007103 A2

(51) International Patent Classification⁷: **A61K**

(21) International Application Number:
PCT/US2004/022015

(22) International Filing Date: 9 July 2004 (09.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/486,171 11 July 2003 (11.07.2003) US

(71) Applicants and

(72) Inventors: **CROOKS, Peter, A.** [GB/US]; 409 West Brannon Rd, Nicholasville, KY 40356 (US). **JORDAN, Craig, T.** [US/US]; 1240 Sherborne Pl, Lexington, KY 40509 (US). **WEI, Xiaochen** [CN/US]; 1608 University Ct. C-109, Lexington, KY 40503 (US).

(74) Agent: **BRUESS, Steven, C.**; Merchant & Could P.C., P.O. Box 2903, Minneapolis, MN 55402-0903 (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.

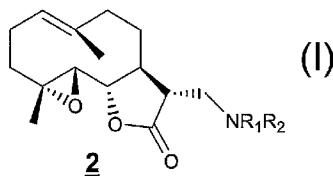
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,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

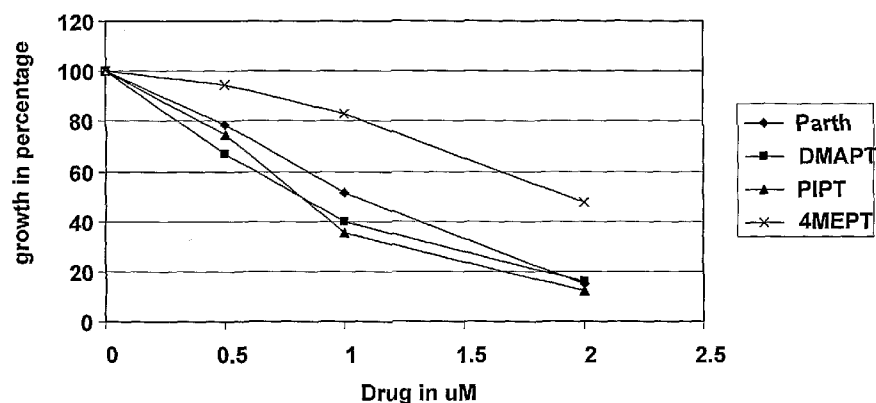
— without international search report and to be republished upon receipt of that report

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: USE OF PARTHENOLIDE DERIVATIVES AS ANTILEUKEMIC AND CYTOTOXIC AGENTS



CWR22 clonogenic assay



(57) Abstract: Compounds of the formula having anti-tumor activity, wherein R₁ and R₂ are as described herein formula (I).

WO 2005/007103 A2