200406172 7

21 OCT 2004

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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
13 November 2003 (13.11.2003)

PCT

(10) International Publication Number
WO 03/092683 A1

(51) International Patent Classification[7]: A61K 31/425, A61P 35/00

(21) International Application Number: PCT/EP03/04581

(22) International Filing Date: 30 April 2003 (30.04.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/377,063 1 May 2002 (01.05.2002) US

(71) Applicant *(for all designated States except AT, US)*: NOVARTIS AG [CH/CH]; Lichtstrasse 35, CH-4056 Basel (CH).

(71) Applicant *(for AT only)*: NOVARTIS PHARMA GMBH [AT/AT]; Brunner Strasse 59, A-1230 Vienna (AT).

(72) Inventor; and
(75) Inventor/Applicant *(for US only)*: ROTHERMEL, John, David [US/US]; 46 School House Road, Randolph, NJ 07869 (US).

(74) Agent: GRUBB, Philip; Novartis AG, Corporate Intellectual Property, CH-4002 Basel (CH).

(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, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LT, LU, LV, MA, MD, MK, MN, MX, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SE, SG, SK, TJ, TM, TN, TR, TT, UA, US, UZ, VC, VN, YU, ZA, ZW.

(84) Designated States *(regional)*: 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).

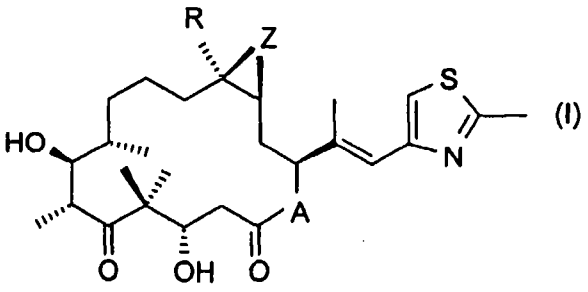
Published:
— *with international search report*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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.

162162

ACTION

(54) Title: EPOTHILONE DERIVATIVE FOR THE TREATMENT OF HEPATOMA AND OTHER CANCER DISEASES



(I)

(57) Abstract: The present invention relates to a method of treating a warm-blooded animal, especially a human, having a cancer disease selected from hepatoma; primary fallopian tube cancer; primary peritoneal cancer; breast cancer progressing after treatment with hormonal agents or radiotherapy; renal cell carcinoma progressing after treatment with a cytokine, radiotherapy and/or nephrectomy,; melanoma progressing after radiotherapy; prostate cancer progressing after orchiectomy, ovarian cancer progressing after treatment with a platinum compound or radiotherapy; and colorectal cancer progressing after radiotherapy and/or treatment with oxaliplatin or irinotecan; and metastasis thereof comprising administering to said animal a therapeutically effective amount of an epothilone derivative of formula (I).

WO 03/092683 A1