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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
8 February 2001 (08.02.2001)

PCT

(10) International Publication Number
WO 01/08688 A3

(51) International Patent Classification[7]: A61K 31/4985, 9/14, A61P 15/10

(21) International Application Number: PCT/US00/20981

(22) International Filing Date: 1 August 2000 (01.08.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/147,048 3 August 1999 (03.08.1999) US

(71) Applicant *(for all designated States except US)*: **LILLY ICOS LLC** [US/US]; 1209 Orange Street, Wilmington, DE 19801 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **ANDERSON, Neil, R.** [US/US]; 906 Northwestern Avenue, West Lafayette, IN 47906 (US). **HARTAUER, Kerry, J.** [US/US]; 14907 Pacer Court, Carmel, IN 46032 (US). **KRAL, Martha, A.** [US/US]; 6125 Haverford Avenue, Indianapolis, IN 46220 (US). **STEPHENSON, Gregory, A.** [US/US]; 10227 Bent Tree Lane, Fishers, IN 46032 (US).

(74) Agent: **NAPOLI, James, J.**; Marshall, O'Toole, Gerstein, Murray & Borun, 6300 Sears Tower, 233 S. Wacker Drive, Chicago, IL 60606 (US).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, 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, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

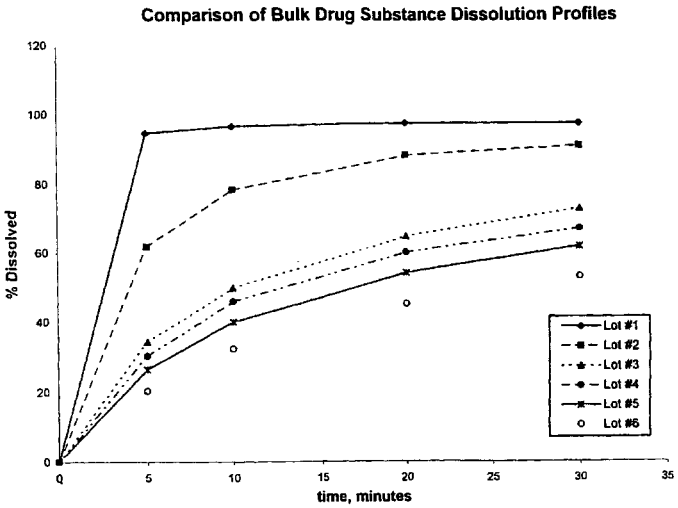
(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR,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

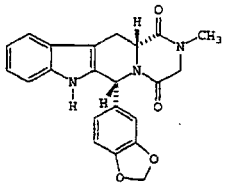
Published:
— *with international search report*

(88) Date of publication of the international search report:
16 August 2001

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: BETA-CARBOLINE DRUG PRODUCTS





(I)

(57) Abstract: A compound of structural formula (I), and pharmaceutically acceptable salts and solvates thereof, wherein the compound is in free drug particulate form, is disclosed.

WO 01/08688 A3