

13/11/02
2002068666

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

(19) World Intellectual Property Organization
International Bureau



162162

(43) International Publication Date
29 November 2001 (29.11.2001)

PCT

(10) International Publication Number
WO 01/89457 A3

(51) International Patent Classification⁷: **A61K 31/41**,
31/4152, 31/44, 31/4709, 31/655, C07D 213/79, 231/20,
257/04, 401/02, 403/02, 405/04, 409/04

(21) International Application Number: PCT/US01/16863

(22) International Filing Date: 24 May 2001 (24.05.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/207,084 25 May 2000 (25.05.2000) US
60/228,929 30 August 2000 (30.08.2000) US

(71) Applicants (for all designated States except US):
SMITHKLINE BEECHAM CORPORATION [US/US]; One Franklin Plaza, Philadelphia, PA 19103 (US). **GLAXO GROUP LIMITED** [GB/GB]; Glaxo House, Berkeley Avenue, Greenford, Middlesex UB6 ONN (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DUFFY, Kevin, J.** [US/US]; 1250 South Collegeville Road, Collegeville, PA 19426 (US). **ERICKSON-MILLER, Connie, L.** [US/US]; 1250 South Collegeville Road, Collegeville, PA 19426 (US). **EPPLEY, Daniel, F.** [US/US]; 3332 S. 21st Street, Abilene, TX 79605 (US). **JENKINS, Julian** [GB/GB]; 891-995 Greenford Road, Greenford, Middlesex UB6 0HE (GB). **LUENGO, Juan, I.** [ES/US]; 1250 South Collegeville Road, Collegeville, PA 19426 (US). **LIU, Nannan** [CN/US]; 1250 South Collegeville Road, Collegeville, PA 19426 (US). **PRICE, Alan, T.** [US/US]; 1250 South Collegeville Road, Collegeville, PA

19426 (US). **SHAW, Antony, N.** [GB/US]; 1250 South Collegeville Road, Collegeville, PA 19426 (US). **VISON-NEAU, Sophie** [FR/US]; 1250 South Collegeville Road, Collegeville, PA 19426 (US). **WIGGALL, Kenneth** [GB/US]; 1250 South Collegeville Road, Collegeville, PA 19426 (US).

(74) Agent: **DUSTMAN, Wayne, J.**; SmithKline Beecham Corporation, Corporate Intellectual Property, UW2220, 709 Swedeland Road, P.O. Box 1539, King of Prussia, PA 19406-0939 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, 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, 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, TR), 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:
7 March 2002

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.

WO 01/89457 A3



ACTION

(54) Title: THROMBOPOIETIN MIMETICS

(57) Abstract: Invented are non-peptide TPO mimetics. Also invented are novel processes and intermediates used in the preparation of the presently invented compounds. Also invented is a method of treating thrombocytopenia, in a mammal, including a human, in need thereof which comprises administering to such mammal an effective amount of a selected hydroxy-1-azobenzene derivative.