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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
3 February 2005 (03.02.2005)

PCT

(10) International Publication Number
WO 2005/009539 A2

(51) International Patent Classification[7]: A61P

(21) International Application Number:
PCT/US2004/023895

(22) International Filing Date: 22 July 2004 (22.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/489,711 23 July 2003 (23.07.2003) US

(71) Applicant *(for all designated States except US)*: **SYNTA PHARMACEUTICALS, CORP.** [US/US]; 45 Hartwell Avenue, Lexington, MA 02421 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **XIE, Yu** [US/US]; 28 Algonquian Drive, Natick, MA 01760 (US). **HOLMQVIST, Mats** [SE/US]; 86 Central Ave., Malden, MA 02148 (US). **MAHIOU, Jerome** [FR/US]; 62 Gleason Street, Lexington, MA 02421 (US). **ONO, Mitsonori** [JP/US]; 197 Wood Street, Lexington, MA 02421 (US). **SUN, Lijun** [CN/US]; 148 Depot Road, Harvard, MA 01451 (US). **CHEN, Shoujun** [CN/US]; 19 Dunster Rd., Bedford, MA 01730 (US). **ZHANG, Shihie** [CN/US]; 27 Lojko Drive, Nashua, NH 03062 (US). **JIANG, Jun** [CN/US]; 117 Central St., Apt. 3, Acton, MA 01720 (US). **CHINMMANAMADA, Dinesh** [IN/US]; 26-B Liberty Street, Waltham, MA 02452 (US).

(74) Agents: **HSI, Jeffrey, D., Hsi** et al.; Edwards & Angell, LLP, P.O. Box 55874, Boston, MA 02205 (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.

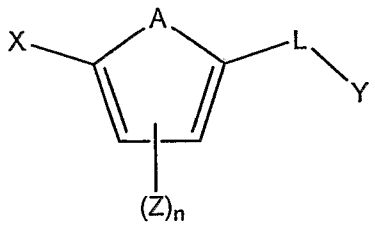
(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,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

WO 2005/009539 A2

(54) Title: COMPOUNDS FOR INFLAMMATION AND IMMUNE-RELATED USES



(I)

(57) Abstract: The invention relates to compounds of formula (I) or a pharmaceutically acceptable salt, solvate, clathrate, or prodrug thereof wherein X, Y, A, Z, L and n are defined herein. These compounds are useful as immunosuppressive agents and for treating and preventing inflammatory conditions and immune disorders.