

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
13 July 2006 (13.07.2006)

PCT

(10) International Publication Number
WO 2006/072436 A1

(51) International Patent Classification:

A61K 31/427 (2006.01) C07D 277/56 (2006.01)
A61K 31/433 (2006.01) C07D 417/12 (2006.01)
A61P 25/28 (2006.01) C07D 285/12 (2006.01)
C07D 277/42 (2006.01) C07D 285/08 (2006.01)

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(21) International Application Number:

PCT/EP2005/014082

(22) International Filing Date:

28 December 2005 (28.12.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

05100077.6 7 January 2005 (07.01.2005) EP

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(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, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

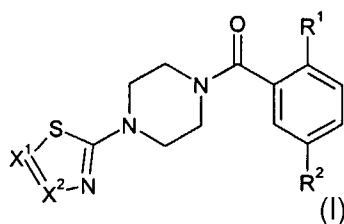
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT,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

— with international search 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: [4-(HETEROARYL) PIPERAZIN-1-YL]-(2,5-SUBSTITUTED -PHENYL)METHANONE DERIVATIVES AS GLYCINE TRANSPORTER 1 (GLYT-1) INHIBITORS FOR THE TREATMENT OF NEUROLOGICAL AND NEUROPSYCHIATRIC DISORDERS



(57) Abstract: The present invention relates to compounds of the general formula (I) wherein R¹ is -OR^{1'}, -SR^{1'} or is a heterocycloalkyl group; R^{1'} is lower alkyl, lower alkyl substituted by halogen or is -(CH₂)_n-cycloalkyl; R² is -S(O)₂-lower alkyl, -S(O)₂NH-lower alkyl, NO₂ or CN; X¹ is CR³ or N; X² is CR³ or N; R³/R^{3'} are independently from each other hydrogen, halogen, lower alkyl, CN, NO₂, -S(O)₂-phenyl, -S(O)₂-lower alkyl, -S(O)₂-pyridin-2, 3 or 4-yl, phenyl, optionally substituted by one or two substituents selected from the group consisting of NO₂ or halogen, or is lower alkyl substituted by halogen or is -C(O)-lower alkyl; n is 0, 1 or 2; and to pharmaceutically acceptable acid

addition salts thereof. It has been found that the compounds of general formula (I) are good inhibitors of the glycine transporter 1 (GLYT-1). They may be used in the treatment of schizophrenia.