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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
23 July 2009 (23.07.2009)

PCT

(10) International Publication Number
WO 2009/090239 A1

(51) International Patent Classification:
C07D 413/06 (2006.01) *A61P 27/00* (2006.01)
A61K 31/454 (2006.01)

(21) International Application Number:
PCT/EP2009/050485

(22) International Filing Date: 16 January 2009 (16.01.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0800108-3 17 January 2008 (17.01.2008) SE

(71) Applicant *(for all designated States except US)*: **BIOVITRUM AB (publ)** [SE/SE]; S-112 76 Stockholm (SE).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **BYSTRÖM, Styrbjörn** [SE/SE]; Hedåsvägen 1, S-187 36 Täby (SE). **HARALDSSON, Martin** [SE/SE]; Runmästarvägen 8, S-187 72 Täby (SE). **JOHANSSON, Lars** [SE/SE]; Börjesonsvägen 8, S-168 50 Bromma (SE). **TEJBRANT, Jan** [SE/SE]; Bäckaskiftsvägen 13, S-122 42 Enskede (SE).

(74) Agent: **VERBOOM, Renzo**; Biovitrum AB (publ), S-112 76 Stockholm (SE).

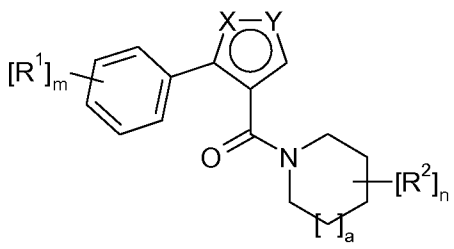
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, 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*

WO 2009/090239 A1

(54) Title: ISOXAZOLE DERIVATIVES AS MODULATORS OF 11-BETA-HYDROXYSTEROID DEHYDROGENASE TYPE 1



(I)

(57) Abstract: The present invention relates to novel isoxazole compounds of formula (I), and pharmaceutically acceptable salts, solvates, hydrates, geometrical isomers, tautomers, optical isomers or *N*-oxides thereof, which are modulators of 11β-hydroxysteroid dehydrogenase type 1 (11β-HSD1). The invention also relates to pharmaceutical compositions comprising these compounds and to the use of these compounds in the preparation of a medicament for the treatment of glaucoma.