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

(19) World Intellectual Property Organization
International Bureau

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

PCT

(10) International Publication Number
WO 2006/072881 A1

(51) International Patent Classification:
A61K 31/496 (2006.01) *A61P 3/10* (2006.01)
A61P 3/00 (2006.01) *A61P 9/10* (2006.01)
A61P 3/04 (2006.01) *A61P 13/12* (2006.01)
A61P 3/06 (2006.01) *A61P 25/28* (2006.01)

(21) International Application Number:
PCT/IB2006/000026

(22) International Filing Date: 10 January 2006 (10.01.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/643,055 10 January 2005 (10.01.2005) US

(71) Applicant *(for all designated States except US)*: **CORTENDO INVEST AB** [SE/SE]; Gothenburg (SE).

(72) Inventor; and
(75) Inventor/Applicant *(for US only)*: **MÄRIN, Per** [SE/SE]; Goteburg (SE).

(74) Agents: **ROQUES, Sarah, Elizabeth** et al.; J A Kemp & Co, 14 South Square, Gray's Inn, London WC1R 5JJ (GB).

(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*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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 2006/072881 A1

(54) **Title:** METHODS AND COMPOSITIONS FOR TREATING DIABETES, METABOLIC SYNDROME AND OTHER CONDITIONS

(57) **Abstract:** Pharmaceuticals compositions comprising the 2S, 4R, ketoconazole enantiomer or its pharaceutically acceptable salts, hydrates, and solvates, that are substantially freee of the 2R, 4S ketoconazole enantiomer are useful to reduce cortisol synthese and for the treatment of type 2 diabetes, hyperglycemia, obesity, insulin resistance, dyslipidemia, hyperlipidemia, hypertension, Metabolic Syndrome, and other diseases and conditions, including but not limited to Cushing's Syndrome, depression, and glaucoma.