

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
12 April 2007 (12.04.2007)

PCT

(10) International Publication Number
WO 2007/039544 A1

(51) International Patent Classification:
C07J 15/00 (2006.01) *A61P 5/34* (2006.01)
A61K 31/57 (2006.01) *A61P 5/36* (2006.01)

(74) Agents: GOSMANN, Martin et al.; Solvay Pharmaceuti-
cals GmbH, c/o Intellectual Property & Scientific Informa-
tion, Hans Böckler Allee 20, 30173 Hannover (DE).

(21) International Application Number:
PCT/EP2006/066842

(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, HN, HR, HU, ID, IL, IN, IS, JP,
KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT,
LU, LV, LY, MA, MD, 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, SV, SY, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(22) International Filing Date:
28 September 2006 (28.09.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
05109126.2 30 September 2005 (30.09.2005) EP
06118034.5 28 July 2006 (28.07.2006) EP

(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).

(71) Applicant (for all designated States except US): SOLVAY
PHARMACEUTICALS GMBH [DE/DE]; Hans-Böck-
ler Allee 20, 30173 Hannover (DE).

(72) Inventors; and

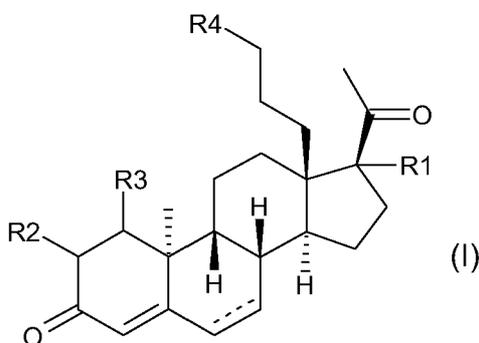
(75) Inventors/Applicants (for US only): MESSINGER,
Josef [DE/DE]; Friedrich Otto Schott Weg 3, 31319
Sehnde (DE). THOLE, Heinrich-Hubert [DE/DE]; Gross
Buchholzer Kirchweg 32, 30655 Hannover (DE). HUSEN,
Bettina [DE/DE]; Altenbekener Damm 37, 30173 Han-
nover (DE). BOECKER, Christiane [DE/DE]; Brandestr.
10, 30519 Hannover (DE). HINAJE, Maria [FR/FR]; 15
Bis Rue Jean Mihe, F-54100 Nancy (FR). BUCHHOLZ,
Monika [DE/DE]; Talstr. 194, 40764 Langenfeld (DE).
MARK, Christoph [DE/DE]; Jakob Hammel Strasse
5, 67550 Worms (DE). KLINGER-DABRAL, Vibhuti
[—/DE]; Pfützenstr. 67, 64347 Griesheim (DE).

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 "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: NOVEL C18 MODIFIED RETROSTEROIDS AS PROGESTERONE RECEPTOR MODULATOR COMPOUNDS



(57) Abstract: Described herein are new retrosteroidal compounds of gen-
eral formula (I), representing progesterone receptor modulators, and their
production, and pharmaceutical preparations containing these compounds.
Said compounds are preferably used for the treatment of benign gynecologi-
cal disorders such as endometriosis and uterine fibroids, as well as for female
birth control and for HRT.

WO 2007/039544 A1