



(51) International Patent Classification:

C07D 519/00 (2006.01) *A61K 31/407* (2006.01)
C07D 405/04 (2006.01) *A61K 31/4162* (2006.01)
C07D 403/04 (2006.01) *A61K 31/4375* (2006.01)

(21) International Application Number:

PCT/EP2015/052492

(22) International Filing Date:

6 February 2015 (06.02.2015)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

PA 2014 00069 7 February 2014 (07.02.2014) DK

(71) Applicant: **H. LUNDBECK A/S** [DK/DK]; Ottiliavej 9,
DK-2500 Valby (DK).

(72) Inventors: **KEHLER, Jan**; Nymøllevej 28, DK-2800 Lyn-
gby (DK). **RASMUSSEN, Lars, Kyhn**; Kaløvej 19, DK-
2720 Vanløse (DK). **LANGGÅRD, Morten**; Rågevej 20,
DK-2600 Glostrup (DK).

(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, BN, BR, BW, BY,
BZ, CA, CH, CL, 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, IR, IS, JP, KE, KG, KN, KP, KR,
KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG,
MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM,
PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC,
SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ,
TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU,
TJ, TM), European (AL, 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, RS, SE, SI, SK,
SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) Title: HEXAHYDROFUOPYRROLES AS PDE1 INHIBITORS

(57) Abstract: The present invention provides hexahydrofuopyrroles as PDE1 inhibitors and their use as a medicament, in particu-
lar for the treatment of neurodegenerative disorders and psychiatric disorders.



WO 2015/118097 A1