

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
06 March 2025 (06.03.2025)



(10) International Publication Number
WO 2025/045773 A1

(51) International Patent Classification:

C07D 209/16 (2006.01) A61P 25/22 (2006.01)
A61P 25/06 (2006.01) A61P 25/24 (2006.01)
A61P 25/18 (2006.01) A61K 31/4045 (2006.01)

(21) International Application Number:

PCT/EP2024/073714

(22) International Filing Date:

23 August 2024 (23.08.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/578,799 25 August 2023 (25.08.2023) US

(71) Applicant: COMPASS PATHFINDER LIMITED

[GB/GB]; 3rd Floor, 1 Ashley Road, Altrincham Cheshire
WA14 2DT (GB).

(72) Inventors: MORPHY, John Richard; c/o COMPASS

Pathfinder Limited, 3rd Floor, 1 Ashley Road, Altrincham
Cheshire WA14 2DT (GB). BAKER, Thomas Matthew;
Pennyfoot Street, Sygnature Discovery, BioCity, Notting-
ham Nottinghamshire NG1 1GR (GB). BROWN, Andrew
William; Pennyfoot Street, Sygnature Discovery, BioCity,
Nottingham Nottinghamshire NG1 1GR (GB).

(74) Agent: COOLEY (UK) LLP; 22 Bishopsgate, London
Greater London EC2N 4BQ (GB).

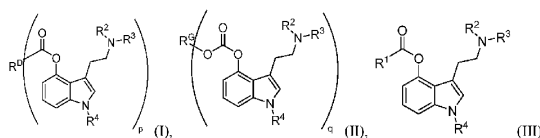
(81) Designated States (unless otherwise indicated, for every

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, CV, CZ, DE, DJ, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG,
KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY,
MA, MD, MG, MK, MN, MU, 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, ST, SV, SY, TH,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS,
ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every

kind of regional protection available): ARIPO (BW, CV,
GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, ME, 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).

(54) Title: 3-(2-(DIMETHYLAMINO)ETHYL)-1H-INDOL-4-YL OLIGOMERIC DERIVATIVES



(57) Abstract: Provided herein are compounds of Formula (I),
Formula (II), Formula (III), a compound selected from any of
the compounds in Table 1, Table 2, Table 3, Table 4 or a phar-
maceutically acceptable salt or deuterated form thereof, wherein
 R^1 , R^2 , R^3 , R^4 , R^D , R^G , p and q are defined herein. Also provid-
ed herein are pharmaceutical compositions comprising a com-
pound of formula (I), or a compound selected from any of the
compounds in Table 1, Table 2, Table 3, Table 4 or pharmaceu-
tically acceptable salt or deuterated form thereof, and methods of
using a compound of formula (I), Formula (II), Formula (III), or
pharmaceutically acceptable salt or deuterated form thereof, e.g.,
in treating 5-HT_{2A} receptor associated diseases or disorders. (I),
(II), (III).

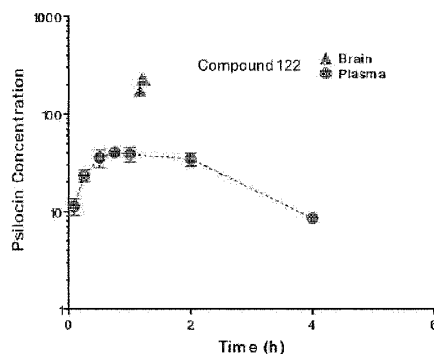


FIG. 1

[Continued on next page]

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*
- *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*