

(51) International Patent Classification:

A61K 31/4045 (2006.01) A61K 31/395 (2006.01)
C07D 209/16 (2006.01) A61K 31/33 (2006.01)
C07D 209/04 (2006.01)

(21) International Application Number:

PCT/US2023/029799

(22) International Filing Date:

09 August 2023 (09.08.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/397,037 11 August 2022 (11.08.2022) US

(71) Applicant: **GILGAMESH PHARMACEUTICALS, INC.** [US/US]; 113 University Place - Suite 1019, New York, New York 10003 (US).

(72) Inventors: **KRUEGEL, Andrew Carry**; 1552 Long Hill Rd., Millington, New Jersey 07946 (US). **CUNNINGHAM, Michael**; 12 Lockley Avenue, Asheville, North Carolina 28804 (US).

(74) Agent: **GROLZ, Edward**; Scully, Scott, Murphy & Presser, 400 Garden City Plaza Suite 300, Garden City, New York 11530 (US).

(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).

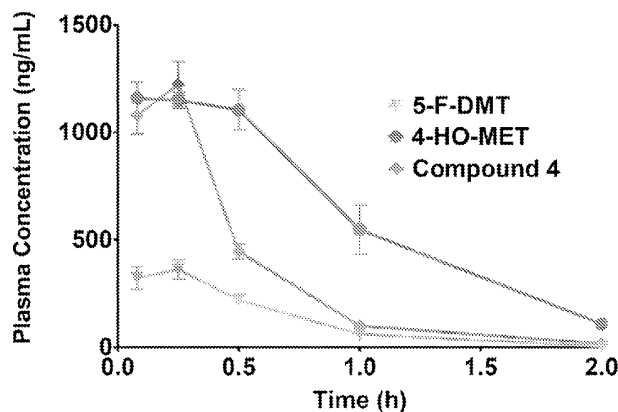
Published:

- 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))

(54) Title: TRYPTAMINES AND METHODS OF TREATING MOOD DISORDERS

FIG. 1

Mouse PK (10 mg/kg, SC)



(57) Abstract: Novel tryptamine compounds according to Formulas (1), (2), (3), (4), (5), and (6) and sub-formulas thereof, pharmaceutical salts thereof, and pharmaceutical compositions thereof, and methods of treating mood disorders, including depressive disorders and bipolar disorders, comprising administering a therapeutically effective amount of a compound according to any one of Formulas (1), (2), (3), (4), (5), and (6) or a pharmaceutical composition thereof to a subject in need thereof.

[Continued on next page]

(88) Date of publication of the international search report:
14 March 2024 (14.03.2024)