



(51) International Patent Classification:

A61K 9/00 (2006.01) A61K 47/36 (2006.01)
A61K 9/10 (2006.01) A61K 31/454 (2006.01)
A61K 9/16 (2006.01) A61P 25/08 (2006.01)

(21) International Application Number:

PCT/US2022/039543

(22) International Filing Date:

05 August 2022 (05.08.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/230,331 06 August 2021 (06.08.2021) US

(71) Applicant: GRIN THERAPEUTICS, INC. [US/US]; 101 Main St. Ste 1210, Cambridge, Massachusetts 02142 (US).

(72) Inventors: GENIN, Marie; c/o GRIN Therapeutics, Inc., 101 Main St. Ste 1210, Cambridge, Massachusetts 02142 (US). MUGLIA, Pierandrea; c/o GRIN Therapeutics, Inc., 101 Main St. Ste 1210, Cambridge, Massachusetts 02142 (US).

(74) Agent: GUTIERREZ, Gregory Daniel et al.; Goodwin Procter LLP, 100 Northern Avenue/IP Docketing 7th fl, Boston, Massachusetts 02210 (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, 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, 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, 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,

(54) Title: FORMULATIONS OF RADIPRODIL

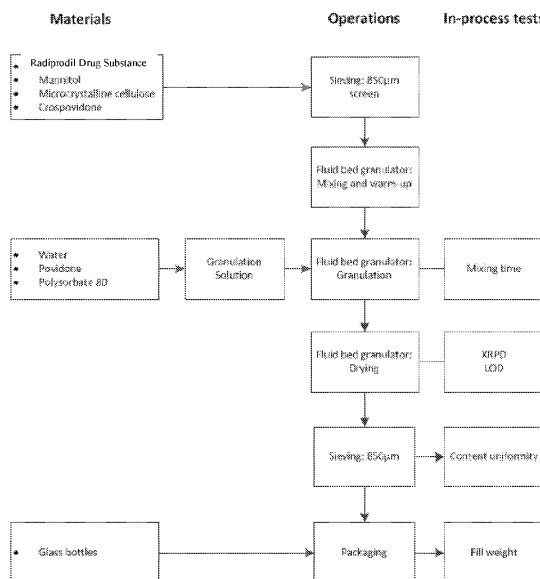


Figure 1

(57) Abstract: The present disclosure provides, in part, pharmaceutical compositions comprising radiprodil and pharmaceutically acceptable excipients and methods of use thereof in the treatment of disorders such as epileptic disorders.

[Continued on next page]

TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
KM, ML, MR, NE, SN, TD, TG).

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))*