

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
30 May 2024 (30.05.2024)



(10) International Publication Number
WO 2024/112659 A1

(51) International Patent Classification:

C07D 233/91 (2006.01) A61K 31/4168 (2006.01)
A61P 3/00 (2006.01)

(21) International Application Number:

PCT/US2023/080519

(22) International Filing Date:

20 November 2023 (20.11.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/384,478 21 November 2022 (21.11.2022) US

(71) Applicant: RIVUS PHARMACEUTICALS, INC.

[US/US]; 706B Forest Street, Charlottesville, Virginia
22903 (US).

(72) Inventors: DUVVURI, Muralikrishna; 401 Rosburn

Way, Chapel Hill, North Carolina 27516 (US). LAMUNY-
ON, Donald Herbert; 4763 Sedona Drive, Eugene, Oregon
97404 (US). BODNER, Micah Jeffrey; 2061 Eastwood
Lane, Eugene, Oregon 97401 (US).

(74) Agent: YANG, Lucy; HONIGMAN LLP, 650 Trade Centre

Way, Suite 200, Kalamazoo, Michigan 49002-0402 (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))

(54) Title: CRYSTALLINE FORMS OF 5-[(2,4-DINITROPHENOXY)METHYL]-1-METHYL-2-NITRO-1H-IMIDAZOLE

(57) Abstract: The present disclosure relates to polymorphic forms of 5-[(2,4-dinitrophenoxy)methyl]-1-methyl-2-nitro-1H-imidazole for treating mitochondria-related disorders or conditions.

WO 2024/112659 A1