

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

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
14 November 2024 (14.11.2024)



(10) International Publication Number
WO 2024/233306 A1

(51) International Patent Classification:

A61P 25/00 (2006.01) A61K 31/5025 (2006.01)
C07D 487/04 (2006.01)

(21) International Application Number:

PCT/US2024/027625

(22) International Filing Date:

03 May 2024 (03.05.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/465,107 09 May 2023 (09.05.2023) US

(71) Applicant: PTC THERAPEUTICS, INC. [US/US]; 500
Warren Corporate Center Drive, Warren, NJ 07059 (US).

(72) Inventor: SHU, Lianhe; c/o PTC Therapeutics, Inc., 500
Warren Corporate Center Drive, Warren, NJ 07059 (US).

(74) Agent: STITELER, Alexandria, P. et al.; HOFFMANN &
BARON, LLP, 6900 Jericho Turnpike, Syosset, NY 11791
(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 2-[3-(2,2,6,6-TETRAMETHYLPYPERIDIN-4-YL)-3H-[1,2,3]TRIAZOLO[4,5-C]PYRI-
DAZIN-6-YL]-5-(2H-1,2,3-TRIAZOL-2-YL)PHENOL

(57) Abstract: The present invention describes specific crystalline forms of 2-[3-(2,2,6,6- tetramethylpiperidin-4-yl)-3H-[1,2,3]triazolo[4,5-c]pyridazin-6-yl]-5-(2H-1,2,3-triazol-2-yl)phenol. The present invention further relates to methods for preparing said crystalline forms, pharmaceutical compositions comprising said crystalline forms, and methods of using said crystalline forms and pharmaceutical compositions comprising said crystalline forms to treat Huntington's Disease.

WO 2024/233306 A1