

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
25 June 2020 (25.06.2020)



(10) International Publication Number
WO 2020/132471 A8

(51) International Patent Classification:

C07D 249/18 (2006.01) A61P 35/00 (2006.01)
A61K 31/4192 (2006.01)

(21) International Application Number:

PCT/US2019/067897

(22) International Filing Date:

20 December 2019 (20.12.2019)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/784,083 21 December 2018 (21.12.2018) US
62/791,571 11 January 2019 (11.01.2019) US
62/882,712 05 August 2019 (05.08.2019) US

(71) Applicant: **AGIOS PHARMACEUTICALS, INC.**
[US/US]; 88 Sidney Street, Cambridge, MA 02139 (US).

(72) Inventors: **ALTAF, Syed**; 28 Robinson Road, Lexington, MA 02420 (US). **RAMAKRISHNAN, Abira**; 4 Churchill Lane, Lexington, MA 02421 (US). **SIZEMORE, Jacob**; 211 Buckingham Ct., Grayslake, IL 60030 (US). **ZHANG, Shijie**; 27 Lojko Drive, Nashua, NH 03062 (US).

(74) Agent: **DAVIS, Steven, G.** et al.; McCarter & English, LLP, 265 Franklin Street, Boston, MA 02110 (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, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, 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, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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, 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))

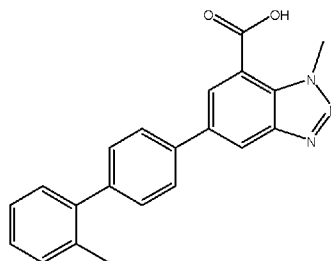
(48) Date of publication of this corrected version:

06 August 2020 (06.08.2020)

(15) Information about Correction:

see Notice of 06 August 2020 (06.08.2020)

(54) Title: CRYSTALLINE AND SALT FORMS OF AN ORGANIC COMPOUND AND PHARMACEUTICAL COMPOSITIONS THEREOF



(57) Abstract: Provided herein are various salts, including tris(hydroxymethyl)aminomethane salts and sodium salts, as well as various crystalline forms of the compound represented by the structural formula: Also provided are pharmaceutical compositions comprising these salts and crystalline forms, methods for their manufacture, and uses thereof for treating conditions, including but not limited to conditions that would benefit from inhibition of dihydroorotate dehydrogenase (DHODH).

WO 2020/132471 A8