

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
15 June 2023 (15.06.2023)



(10) International Publication Number
WO 2023/107980 A1

(51) International Patent Classification:

A61K 31/4184 (2006.01) A61K 31/395 (2006.01)
A61K 9/28 (2006.01) A61K 31/40 (2006.01)
A61K 31/33 (2006.01) A61K 31/407 (2006.01)

(21) International Application Number:

PCT/US2022/081060

(22) International Filing Date:

07 December 2022 (07.12.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/287,212 08 December 2021 (08.12.2021) US

(71) Applicant: KINNATE BIOPHARMA INC. [US/US];

12830 El Camino Real, Suite 150, San Diego, California
92130 (US).

(72) Inventor: KALDOR, Stephen W. (deceased).

(72) Inventors: KANOUNI, Toufike; 12830 El Camino

Real, Suite 150, San Diego, California 92130 (US).
PHIMISTER, Andrew; 12830 El Camino Real, Suite 150,

San Diego, California 92130 (US). REDDY, Jayachandra
P.; 12830 El Camino Real, Suite 150, San Diego, California
92130 (US). TYHONAS, John; 12830 El Camino Real,
Suite 150, San Diego, California 92130 (US). CHOPADE,
Shubham; 12830 El Camino Real, Suite 150, San Diego,
California 92130 (US). PANDEY, Preetanshu; 12830 El
Camino Real, Suite 150, San Diego, California 92130 (US).
COX, Jason M.; 12830 El Camino Real, Suite 150, San
Diego, California 92130 (US). KANIA, Robert; 12830 El
Camino Real, Suite 150, San Diego, California 92130 (US).

(74) Agent: CLARK, David; WILSON SONSINI GOODRICH
& ROSATI, 650 Page Mill Road, Palo Alto, California
94304 (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, MW, MX, MY, MZ, NA, NG,
NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS,

(54) Title: SOLID STATE FORMS OF AN FGFR INHIBITOR

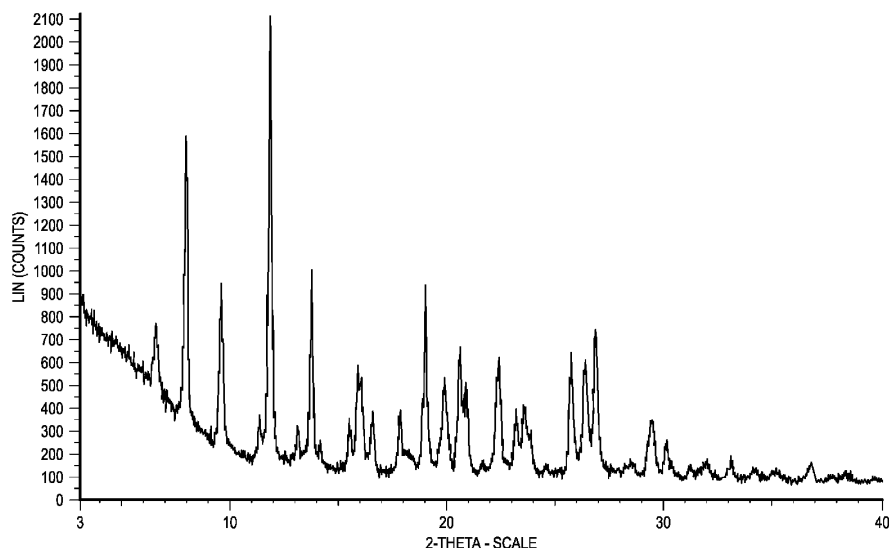


FIG. 4

(57) Abstract: The present disclosure relates to solid state forms of 1-((3S,5R)-1-acryloyl-5-(methoxymethyl)pyrrolidin-3-yl)-3-((1-cyclopropyl-4,6-difluoro-1H-benzo[d]imidazol-5-yl)ethynyl)-5-(methylamino)-1H-pyrazole-4-carboxamide. Such solid state forms are useful in preparation of pharmaceutical compositions and dosage forms for the treatment of disease.

[Continued on next page]

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, 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).

Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

Published:

— *with international search report (Art. 21(3))*