

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
14 September 2023 (14.09.2023)



(10) International Publication Number
WO 2023/172921 A1

(51) International Patent Classification:

C07D 401/04 (2006.01) A61K 31/4365 (2006.01)
C07D 471/02 (2006.01) A61P 35/00 (2006.01)

(21) International Application Number:

PCT/US2023/063875

(22) International Filing Date:

07 March 2023 (07.03.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/317,308 07 March 2022 (07.03.2022) US

(71) Applicant: **INCYTE CORPORATION** [US/US]; 1801 Augustine Cut-Off, Wilmington, Delaware 19803 (US).

(72) Inventors: **SCLAFANI, Joseph, A.**; 1801 Augustine Cut-Off, Wilmington, Delaware 19803 (US). **CARPER, Daniel**; 1801 Augustine Cut-Off, Wilmington, Delaware 19803 (US). **JIA, Zhongjiang**; 1801 Augustine Cut-Off, Wilmington, Delaware 19803 (US). **SHI, Eric**; 1801 Augustine Cut-Off, Wilmington, Delaware 19803 (US). **ZHANG, Aibin**; 1801 Augustine Cut-Off, Wilmington,

Delaware 19803 (US). **ZHANG, Huaping**; 229A Lake Drive, Newark, Delaware 19702 (US). **GUO, Wenxing**; 1801 Augustine Cut-Off, Wilmington, Delaware 19803 (US).

(74) Agent: **CULHANE, Crystal et al.**; Fish & Richardson P.C., 60 South Sixth Street, Minneapolis, Minnesota 55440-1022 (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, 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,

(54) Title: SOLID FORMS, SALTS, AND PROCESSES OF PREPARATION OF A CDK2 INHIBITOR

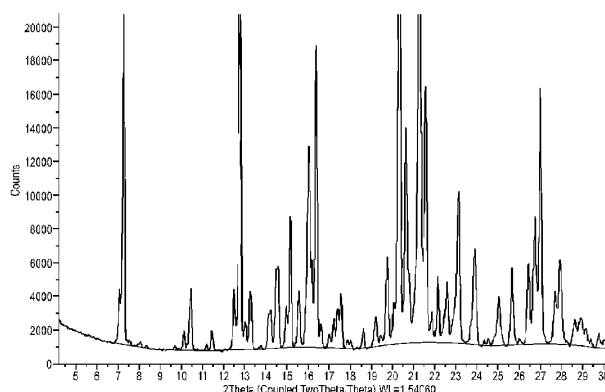
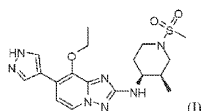


FIG. 1

(57) Abstract: The present application provides solid forms and salts of a compound of Formula (I); (I) pharmaceutical compositions thereof, methods of treating a disease or disorder associated with CDK2 using the same, and processes of preparing the compound of Formula (I) and the solid forms and salts.

[Continued on next page]

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))*
- *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))*
- *with sequence listing part of description (Rule 5.2(a))*