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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
20 July 2023 (20.07.2023)

WIPO | PCT

(10) International Publication Number
WO 2023/137035 A1

(51) International Patent Classification:
A61P 25/00 (2006.01) *C07D 498/04* (2006.01)
A61P 37/00 (2006.01) *A61K 31/553* (2006.01)

(21) International Application Number:
PCT/US2023/010551

(22) International Filing Date:
11 January 2023 (11.01.2023)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/298,816 12 January 2022 (12.01.2022) US
63/386,113 05 December 2022 (05.12.2022) US

(71) Applicant: **DENALI THERAPEUTICS INC.** [US/US]; 161 Oyster Point Blvd., 2nd Floor, South San Francisco, California 94080 (US).

(72) Inventor: **SUDHAKAR, Anantha**; c/o Sanofi, Patent Department, 450 Water Street, Cambridge, Massachusetts 02141 (US).

(74) Agent: **BAUR, Amelia F.** et al.; McNeill Baur PLLC, 125 Cambridge Park Drive, Suite 301, Cambridge, Massachusetts 02140 (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, 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,

(54) Title: CRYSTALLINE FORMS OF (S)-5-BENZYL-N-(5-METHYL-4-OXO-2, 3,4,5- TETRAHYDROPYRIDO [3,2-B] [L,4]OXAZEPIN-3-YL)-4H-L,2,4-TRIAZOLE-3-CARBOXAMIDE

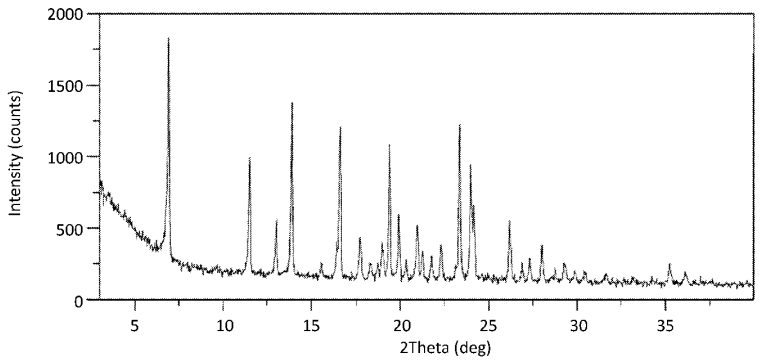

Fig. 1

(57) Abstract: Described herein are crystalline forms of (S)-5-benzyl-N-(5-methyl-4-oxo-2,3,4,5-tetrahydropyrido [3,2-b][1,4]oxazepin-3-yl)-4H-1,2,4-triazole-3-carboxamide, the process of preparing the forms, and pharmaceutical compositions methods of use thereof.

[Continued on next page]

WO 2023/137035 A1

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))*