

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
04 May 2023 (04.05.2023)



(10) International Publication Number
WO 2023/077090 A1

(51) International Patent Classification:

C07K 16/28 (2006.01) A61P 35/02 (2006.01)
A61P 35/00 (2006.01) A61K 39/395 (2006.01)

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).

(21) International Application Number:

PCT/US2022/078912

(22) International Filing Date:

28 October 2022 (28.10.2022)

Published:

- with international search report (Art. 21(3))
- with sequence listing part of description (Rule 5.2(a))

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/273,492 29 October 2021 (29.10.2021) US

(71) Applicant: BRISTOL-MYERS SQUIBB COMPANY

[US/US]; Route 206 and Province Line Road, Princeton, New Jersey 08543 (US).

(72) Inventors: SRIVASTAVA, Shivani; c/o Bristol-Myers

Squibb Company, Route 206 and Province Line Road, Princeton, New Jersey 08543 (US). AGRAWAL, Shrutidevi Kunjbiharlal; c/o Bristol-Myers Squibb Company, Route 206 and Province Line Road, Princeton, New Jersey 08543 (US). GELB, Arnold Bruce; c/o Bristol-Myers Squibb Company, 1500 Owens Street, San Francisco, California 94158 (US). CHEONG, Alicia Mun Yen; c/o Bristol-Myers Squibb Company, Uxbridge Business Park, Sanderson Road, Uxbridge Middlesex UB81DH (GB).

(74) Agent: KIM, Ji Eun et al.; Sterne, Kessler, Goldstein &

Fox P.L.L.C., 1100 New York Avenue, NW, Washington, District of Columbia 20005 (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,

(54) Title: LAG-3 ANTAGONIST THERAPY FOR HEMATOLOGICAL CANCER

(57) Abstract: The disclosure provides a method of treating a human subject afflicted with a hematological cancer with a lymphocyte activation gene-3 (LAG-3) antagonist. In some aspects, the method comprises combination of the LAG-3 antagonist with an additional therapeutic agent (e.g., a programmed death-1 pathway inhibitor). In some aspects, the subject is greater than or equal to about 12 years old and has a weight of greater than or equal to about 40 kg, including subjects less than or equal to about 30 years old or less than about 18 years old. In some aspects, the subject has a weight of less than about 40 kg and/or is less than about 12 years old.

WO 2023/077090 A1