

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
17 March 2022 (17.03.2022)



(10) International Publication Number
WO 2022/056202 A1

(51) International Patent Classification:

A61K 39/395 (2006.01) *A61P 19/02* (2006.01)
A61K 47/00 (2006.01) *C07K 16/24* (2006.01)
A61K 47/26 (2006.01) *A61K 39/00* (2006.01)
A61P 17/06 (2006.01)

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

(21) International Application Number:

PCT/US2021/049773

(22) International Filing Date:

10 September 2021 (10.09.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/076,600 10 September 2020 (10.09.2020) US

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))

(71) Applicant: **ELI LILLY AND COMPANY** [US/US]; Lilly Corporate Center, Indianapolis, Indiana 46285 (US).

(72) Inventors: **MARKHAM, Aaron Paul**; c/o Eli Lilly And Company, P.O. Box 6288, Indianapolis, Indiana 46206-6288 (US). **SHI, Galen Huaqiu**; c/o Eli Lilly And Company, P.O. Box 6288, Indianapolis, Indiana 46206-6288 (US). **THOMAS, Justin Cody**; c/o Eli Lilly And Company, P.O. Box 6288, Indianapolis, Indiana 46206-6288 (US).

(74) Agent: **SHARP, Robert L.** et al.; c/o Eli Lilly And Company, P.O. Box 6288, Indianapolis, Indiana 46206-6288 (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, IT, 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, 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, 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).

(54) Title: THERAPEUTIC ANTIBODY FORMULATIONS

(57) Abstract: Stable pharmaceutical formulations for therapeutic anti-IL-23p19 antibodies and methods of using such stable pharmaceutical formulations.

WO 2022/056202 A1