

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
08 June 2023 (08.06.2023)



(10) International Publication Number
WO 2023/102367 A1

(51) International Patent Classification:

C07K 16/28 (2006.01) C07K 14/715 (2006.01)
A61P 35/00 (2006.01) A61K 39/395 (2006.01)
C07K 14/54 (2006.01)

(21) International Application Number:

PCT/US2022/080542

(22) International Filing Date:

29 November 2022 (29.11.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/284,937 01 December 2021 (01.12.2021) US

(71) Applicant: **KADMON CORPORATION, LLC** [US/US];
55 Corporate Drive, Bridgewater, NJ 08807 (US).

(72) Inventors: **LU, Dan**; c/o Sanofi, Patent Department, 450 Water Street, Cambridge, Massachusetts 02141 (US). **PA-TEL, Jeegar P.**; c/o Sanofi, Patent Department, 450 Water Street, Cambridge, Massachusetts 02141 (US). **CHANG, Tsu-Pei**; c/o Sanofi, Patent Department, 450 Water Street, Cambridge, Massachusetts 02141 (US). **POLONSKAYA, Zhanna**; c/o Sanofi, Patent Department, 450 Water Street, Cambridge, Massachusetts 02141 (US). **MIYARA, Faical**;

c/o Sanofi, Patent Department, 450 Water Street, Cambridge, Massachusetts 02141 (US).

(74) Agent: **BAUR, Amelia Feulner** 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: B7-H4 ANTIBODIES AND ANTI-B7-H4 ANTIBODY/IL-15 FUSION PROTEINS

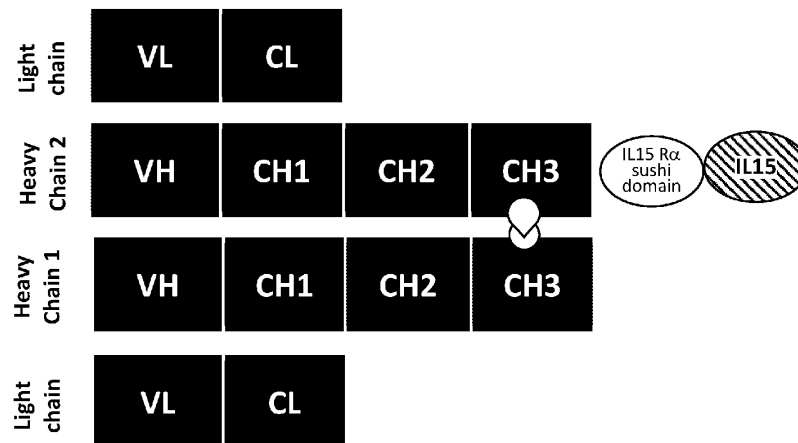


Fig. 1B

(57) Abstract: Provided herein are recombinant antibodies, antigen-binding fragments thereof, and fusion proteins thereof useful for binding to and inhibiting B7-H4. Also provided are nucleic acid molecules encoding the antibodies, antigen-binding fragments thereof, and fusion proteins thereof disclosed herein and therapeutic compositions thereof. Disclosed are further methods of using the disclosed antibodies, antigen-binding fragments thereof, and fusion proteins thereof for the treatment of disease.

[Continued on next page]

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))*