

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
28 March 2024 (28.03.2024)



(10) International Publication Number
WO 2024/061306 A1

(51) International Patent Classification:

C07K 16/28 (2006.01) C12N 15/63 (2006.01)
C07K 19/00 (2006.01) G01N 33/574 (2006.01)
C12N 5/00 (2006.01) A61P 35/00 (2006.01)
C12N 15/11 (2006.01) A61K 39/395 (2006.01)

(21) International Application Number:

PCT/CN2023/120292

(22) International Filing Date:

21 September 2023 (21.09.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

PCT/CN2022/120415

22 September 2022 (22.09.2022) CN

(71) Applicants: SHANGHAI HENLIUS BIOTECH, INC.

[CN/CN]; Room 330, Complex Building, No. 222 Kangnan Road, China (Shanghai) Pilot Free Trade Zone, Pudong New Area, Shanghai 201210 (CN). SHANGHAI HENLIUS BIOPHARMACEUTICAL CO., LTD. [CN/CN]; Building 1 (Building D), No.1289, Yishan Road, Xuhui District, Shanghai 200233 (CN). SHANGHAI HENLIUS BIOLOGICS CO., LTD. [CN/CN]; Room 617, Building 29, No.1, Lane 618, Dingyuan Road, Songjiang District, Shanghai 201616 (CN).

(72) Inventors: CHANG, Jen-Kuan; Room 330, Complex

Building, No. 222 Kangnan Road, China (Shanghai) Pilot Free Trade Zone, Pudong New Area, Shanghai 201210 (CN). XU, Wenfeng; Room 330, Complex Building, No. 222 Kangnan Road, China (Shanghai) Pilot Free Trade Zone, Pudong New Area, Shanghai 201210 (CN). JIANG, Wei-Dong; Room 330, Complex Building, No. 222 Kangnan Road, China (Shanghai) Pilot Free Trade Zone, Pudong New Area, Shanghai 201210 (CN). ISSAFRAS, Hassan; Room 330, Complex Building, No. 222 Kangnan Road, China (Shanghai) Pilot Free Trade Zone, Pudong New Area, Shanghai 201210 (CN). XUE, Jie; Room 330, Complex Building, No. 222 Kangnan Road, China (Shanghai) Pilot Free Trade Zone, Pudong New Area, Shanghai 201210 (CN). LIN, Pei-Hua; Room 330, Complex Building, No. 222 Kangnan Road, China (Shanghai) Pilot Free Trade Zone, Pudong New Area, Shanghai 201210 (CN).

(74) Agent: CHINA PATENT AGENT (H.K.) LTD.; 22/F,

Great Eagle Centre, 23 Harbour Road, Wanchai, Hong Kong 999077 (CN).

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

(54) Title: ANTI-B7H3 ANTIBODIES AND METHODS OF USE

(57) Abstract: The present application discloses antibodies and antibody derivatives that bind to B7H3 (also known as CD276) and methods of using the same. The antibodies or antibody derivatives comprise a single domain antibody that binds to B7H3.

WO 2024/061306 A1