

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
19 November 2020 (19.11.2020)



(10) International Publication Number
WO 2020/229982 A1

(51) International Patent Classification:

A61P 33/00 (2006.01) *C07K 9/00* (2006.01)
A61K 47/68 (2017.01) *C07K 16/28* (2006.01)
A61P 35/00 (2006.01) *C07F 9/6574* (2006.01)
C07H 21/00 (2006.01)

(21) International Application Number:

PCT/IB2020/054400

(22) International Filing Date:

08 May 2020 (08.05.2020)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/846,494	10 May 2019 (10.05.2019)	US
62/855,367	31 May 2019 (31.05.2019)	US
62/952,768	23 December 2019 (23.12.2019)	US
63/016,682	28 April 2020 (28.04.2020)	US

(71) Applicant: **TAKEDA PHARMACEUTICAL COMPANY LIMITED** [JP/JP]; 1-1, Doshomachi 4-chome, Chuo-ku, Osaka-shi, Osaka, 541-0045 (JP).

(72) Inventors; and

(71) Applicants: **ISHII, Yumiko** [JP/JP]; 1-1, Doshomachi 4-chome, Chuo-ku, Osaka-shi, Osaka, 541-0045 (JP). **NISHIMOTO, Yutaka** [JP/JP]; 1-1, Doshomachi 4-chome, Chuo-ku, Osaka-shi, Osaka, 541-0045 (JP).

(72) Inventors: **ENGLAND, Dylan Bradley**; 40 Landsdowne Street, Cambridge, Massachusetts 02139 (US). **LANGSTON, Steve P.**; 40 Landsdowne Street, Cambridge, Massachusetts 02139 (US). **LEE, Hong Myung**; 40 Landsdowne Street, Cambridge, Massachusetts 02139 (US). **MA, Liting**; 40 Landsdowne Street, Cambridge, Massachusetts 02139 (US). **SHI, Zhan**; 40 Landsdowne Street, Cambridge, Massachusetts 02139 (US). **VYSKOCIL, Stepan**; 40 Landsdowne Street, Cambridge, Massachusetts 02139 (US). **WANG, Jianing**; 40 Landsdowne Street, Cambridge, Massachusetts 02139 (US). **XU, He**; 40 Landsdowne Street, Cambridge, Massachusetts 02139 (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, JO, JP, KE, KG, KH, KN, KP,

(54) Title: ANTIBODY DRUG CONJUGATES

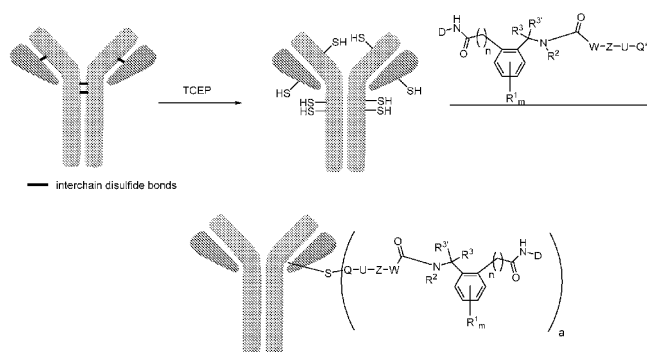
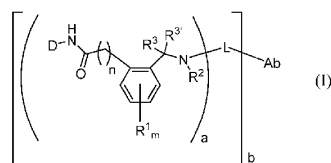


FIG. 1



(57) Abstract: The present disclosure provides antibody drug conjugates comprising STING modulators. Also provided are compositions comprising the antibody drug conjugates. The compounds and compositions are useful for stimulating an immune response in a subject in need thereof. Formula (I):

[Continued on next page]

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).

Published:

- with international search report (Art. 21(3))
- with sequence listing part of description (Rule 5.2(a))
- in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE