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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
01 December 2022 (01.12.2022)

WIPO | PCT

(10) International Publication Number
WO 2022/251258 A1

(51) International Patent Classification:
A61P 3/10 (2006.01) *C07K 16/18* (2006.01)
A61P 3/08 (2006.01) *A61P 3/00* (2006.01)

(21) International Application Number:
PCT/US2022/030780

(22) International Filing Date:
24 May 2022 (24.05.2022)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/192,414 24 May 2021 (24.05.2021) US
17/752,650 24 May 2022 (24.05.2022) US

(71) Applicant: **PROVENTION BIO, INC.** [US/US]; 55 Broad Street, 2nd Floor, Red Bank, New Jersey 07701 (US).

(72) Inventor: **LEON, Francisco**; 8501 River Rock Terrace, Bethesda, Maryland 20817 (US).

(74) Agent: **DYKEMAN, David J.** et al.; Greenberg Traurig, LLP, One International Place, Suite 2000, Boston, Massachusetts 02110 (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, IQ, IR, IS, IT, JM, 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).

Published:
— *with international search report (Art. 21(3))*
— *with sequence listing part of description (Rule 5.2(a))*

(54) **Title:** METHODS FOR TREATING POST INFECTIOUS AUTOIMMUNE DIABETES

(57) **Abstract:** Provided herein are a method of treating type 1 diabetes (T1D) post SARS-CoV-2 infection. In some embodiments, such method can include administering to a subject in need thereof a 12-day course of teplizumab at a total dose of more than about 9000 $\mu g/m^2$.

WO 2022/251258 A1