

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

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
12 March 2020 (12.03.2020)



(10) International Publication Number
WO 2020/048995 A1

(51) International Patent Classification:
C07K 14/47 (2006.01)

(21) International Application Number:
PCT/EP2019/073481

(22) International Filing Date:
03 September 2019 (03.09.2019)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
1814362.8 04 September 2018 (04.09.2018) GB

(71) Applicant: **TREOS BIO ZRT** [HU/HU]; Viola utca 2,
8200 Veszprem (HU).

(72) Inventors: **LISZEWICZ, Julianna**; Szorosi út 13, 8220
Balatonalmádi (HU). **MOLNÁR, Levente**; Kossuth Lajos
u. 20, 2363 Felsopakony (HU). **TOKE, Eniko**; Kossuth La-
jos u. 20, 2363 Felsopakony (HU). **TOTH, József**; Újkút
u. 72, 9012 Győr (HU). **LORINCZ, Orsolya**; Attila u. 27,
fszt/13, 1047 Budapest (HU). **CSISZOVSKAI, Zsolt**; Bik-
szádi u. 12/A, 4/9, 1119 Budapest (HU). **SOMOGYI, Es-
zter**; Borgazda u. 3, 8220 Balatonalmádi (HU). **PÁNTYA,
Katalin**; Üllői út 16/b 2.em. 9/b, 1085 Budapest (HU).
MEGYESI, Mónika; Táncsics Mihály u. 63, 3441 Mezők-
eresztes (HU). **PÁLES, Péter**; Csomafalva u. 5, 1173 Bu-
dapest (HU).

(74) Agent: **J A KEMP LLP**; 14 South Square, Gray's Inn, Lon-
don Greater London WC1R 5JJ (GB).

(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,
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, SM, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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: PROCESS FOR PREPARING VACCINE COMPOSITIONS

(57) Abstract: The disclosure relates to polypeptides, polynucleic acids and pharmaceutical compositions comprising polypeptides that find use in the prevention or treatment of cancer. The disclosure also relates to methods of inducing a cytotoxic T cell response in a subject or treating cancer by administering pharmaceutical compositions comprising the peptides, and companion diagnostic methods. The disclosure also relates to a method of preparing a peptide or polynucleic acid for use in a method of inducing a T cell response against a target polypeptide, wherein the method comprises identifying epitopes in the antigen that bind to multiple HLA alleles of the highest proportion of subjects in a target population.



WO 2020/048995 A1