

SARS-CoV-2 Spike Glycoprotein B.1.1.7-Alpha

Cat. No.: RP30025

Overview

Description	This pool is delivered in two subpools of 158 & 157 peptides derived from a peptide scan (15mers with 11 aa overlap) through the entire Spike glycoprotein of SARS-CoV-2 B.1.1.7, UK (Severe Acute Respiratory Syndrome-related coronavirus 2, Lineage B.1.1.7), covering the following mutations: HV 69-70 deletion, Y144 deletion, N501Y, A570D, P681H, T716I, S982A, D1118H and additional mutation D614G.
Sequence	MFVFLVLLPLVSSQCVNLTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFSNVTWFHAIS GTNGTKRFDNPVLPFNDGVYFASTEKSNIRGWIFGTTLDSTQSLNATNWKVCFEFCNDPF LGVYHKNNKSWMESEFRVYSSANNCTFEYVVSQPFLMDLEGKQGNFKNREFVFNIDGYFKIYSKHT PINLVRDLPQGFSALEPLVDLPIGINITRFQTLALHRSYLTGPDSSSGWTAGAAAAYVGYLQPRTELLK YNENGTITDAVDCALDPLSETKCTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATRF ASVYAWNRKRISNCVADYSVLVNSASFSTFKCYGVSPKLNLDLCTNVYADSFVIRGDEVQRQIAPGQTG KIADYNYKLPDDFTGCVIAWNSNNLDSKVGNYNYLYRFRKSNLKPFRDISTEIQAGSTPCNGVE GFNCYFPLQSYGFQPTYGVGYQPYRVVLSFELLHAPATVCGPKKSTNLVKNKCVNFNENGLTGTGV LTESNKKFLPFQFGRDIDDTDAVRDPQTLEILDITPCSFGGVSVITPGTNTSNQVAVLYQGVNCTEV PVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAEHVNSYECDIPIGAGICASYQTQTNSHRRARSVA SQSIIAYTMSLGAENSVAYSNNIAIPINFTISVTTEILPVSMTKTSVDCTMYICGDSTECNLLLQYGSF CTQLNRALTGIAVEQDKNTQEVFAQVKQIYKTPPIKDFGGFNFSQILPDPSKPSKRSFIEDLLFNKVTL ADAGFIKQYGDCLGDIAARDLICAQKFNGLTVLPPLLTDEMQYTSALLAGTITSGWTFGAGAALQIP FAMQMAYRFNGIGVTQNVLYENQKLIANQFNQSAIGKIQDLSSTASALGKLQDVVNQNAQALNTLVK QLSSNFGAISSVLNDILARLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRASANLAATKMSECVL GQSKRVDFCGKGYHLSFQSPHGVVFLHVTYVPAQEKNFTTAPAICHGDKAHFPREGVFSVNGT HWFVTQRNFYEPQIITHTNTFVSGNCDVWIGVNNVYDPLQPELDSFKEELDKYFKNHTSPDVDLGD ISGINASVNIQKEIDRLNEVAKNLNESLIDLQELGKYEQYIKWPWYIWLGFIAGLIAIVMTIMLCCMSTS CCSCLKGCCSCGSCCKFDEDDSEPVKGVKLHYT

Properties

Source	Severe Acute Respiratory Syndrome-related coronavirus 2 (Lineage B.1.1.7) Spike glycoprotein (covering the following mutations: HV 69-70 deletion, Y144 deletion, N501Y, A570D, P681H, T716I, S982A, D1118H and additional mutation D614G).
Gene ID	S
Length	1270 aa

Purity	Crude (Major peak by ESI-MS is guaranteed to be peptide of interest - determined at 220 nm for each individual peptide).
Solubility	Dissolve in a minimum amount of pure DMSO (approx. 50 µl) and dilute with PBS buffer to the final concentration. Please note that the final concentration of DMSO must be below 1 % (v/v) to avoid toxicity in the biological system.
Form	Lyophilized
Storage	Store at -20°C.
Note	The peptides of this product are supplied as trifluoroacetate salts.

Sequence (one-letter-code)

Code	Sequence	Code	Sequence
peptide_1	MFVFLVLLPLVSSQC	peptide_2	LVLLPLVSSQCVNLT
peptide_3	PLVSSQCVNLTTTRTQ	peptide_4	SQCVNLTTTRTQLPPA
peptide_5	NLTTTRTQLPPAYTNS	peptide_6	RTQLPPAYTNSFTRG
peptide_7	PPAYTNSFTRGVVYP	peptide_8	TNSFTRGVVYPDKVF
peptide_9	TRGVVYPDKVFRSSV	peptide_10	YYPDKVFRSSVLHST
peptide_11	KVFRSSVLHSTQDLF	peptide_12	SSVLHSTQDLFLPFF
peptide_13	HSTQDLFLPFFSNVT	peptide_14	DLFLPFFSNVTWFHA
peptide_15	PFFSNVTWFHAISGT	peptide_16	NVTWFHAISGTNGTK
peptide_17	FHAISGTNGTKRFDN	peptide_18	SGTNGTKRFDNPVLP
peptide_19	GTKRFDNPVLPFNDG	peptide_20	FDNPVLPFNDGVYFA
peptide_21	VLPFNDGVYFASTEK	peptide_22	NDGVYFASTEKSNII
peptide_23	YFASTEKSNIRGWI	peptide_24	TEKSNIRGWIFGTT
peptide_25	NIIRGWIFGTTLDSK	peptide_26	GWIFGTTLDSKTQSL
peptide_27	GTTLDSKTQSLLIVN	peptide_28	DSKTQSLLIVNNATN
peptide_29	QSLLIVNNATNVWIK	peptide_30	IVNNATNVWIKVCEF
peptide_31	ATNVWIKVCEFQFCN	peptide_32	VIKVCEFQFCNDPFL
peptide_33	CEFQFCNDPFLGVYH	peptide_34	FCNDPFLGVYHKNNK
peptide_35	PFLGVYHKNNKSWME	peptide_36	VYHKNNKSWMESEFR
peptide_37	NNKSWMESEFRVYSS	peptide_38	WMESEFRVYSSANNC
peptide_39	EFRVYSSANNCTFEY	peptide_40	YSSANNCTFEYVSQP
peptide_41	NNCTFEYVSQPFLMD	peptide_42	FEYVSQPFLMDLEGK

peptide_43	SQPFLMDLEGKQGNF	peptide_44	LMDLEGKQGNFKNLR
peptide_45	EGKQGNFKNLREFVF	peptide_46	GNFKNLREFVFKNID
peptide_47	NLREFVFKNIDGYFK	peptide_48	FVFKNIDGYFKIYSK
peptide_49	NIDGYFKIYSKHTPI	peptide_50	YFKIYSKHTPINLVR
peptide_51	YSKHTPINLVRDLPQ	peptide_52	TPINLVRDLPQGFA
peptide_53	LVRDLPQGFSALEPL	peptide_54	LPQGFSALEPLVDLP
peptide_55	FSALEPLVDLPIGIN	peptide_56	EPLVDLPIGINITRF
peptide_57	DLPIGINITRFQTLL	peptide_58	GINITRFQTLLALHR
peptide_59	TRFQTLLALHRSYLT	peptide_60	TLLALHRSYLTGDS
peptide_61	LHRSYLTGDSSSGW	peptide_62	YLTPGDSSSGWTAGA
peptide_63	GDSSSGWTAGAAAYY	peptide_64	SGWTAGAAAYVGYL
peptide_65	AGAAAYVGYLQPR	peptide_66	AYVGYLQPRFLLK
peptide_67	GYLQPRFLLKYNEN	peptide_68	PRTFLLKYNENGTIT
peptide_69	LLKYNENGTITDAVD	peptide_70	NENGTITDAVDCALD
peptide_71	TITDAVDCALDPLSE	peptide_72	AVDCALDPLSETKCT
peptide_73	ALDPLSETKCTLKSF	peptide_74	LSETKCTLKSFTVEK
peptide_75	KCTLKSFTVEKGIYQ	peptide_76	KSFTVEKGIYQTSNF
peptide_77	VEKGIYQTSNFRVQP	peptide_78	IYQTSNFRVQPTEI
peptide_79	SNFRVQPTEIVRFP	peptide_80	VQPTEIVRFPNITN
peptide_81	ESIVRFPNITNLCPF	peptide_82	RFPNITNLCPFGEVF
peptide_83	ITNLCPFGEVFNATR	peptide_84	CPFGEVFNATRFASV
peptide_85	EVFNATRFASVYAWN	peptide_86	ATRFASVYAWNKRRI
peptide_87	ASVYAWNKRKISNCV	peptide_88	AWNKRKISNCVADYS
peptide_89	KRISNCVADYSVLYN	peptide_90	NCVADYSVLYNSASF
peptide_91	DYSVLYNSASFSTFK	peptide_92	LYNSASFSTFKCYGV
peptide_93	ASFSTFKCYGVSPK	peptide_94	TFKCYGVSPKLNLD
peptide_95	YGVSPKLNLDLFTN	peptide_96	PKLNLDLFTNVYAD
peptide_97	NLDLFTNVYADSFVI	peptide_98	FTNVYADSFVIRGDE
peptide_99	YADSFVIRGDEVRQI	peptide_100	FVIRGDEVRQIAPGQ
peptide_101	GDEVRQIAPGQTGKI	peptide_102	RQIAPGQTGKIADYN
peptide_103	PGQTGKIADYNYKLP	peptide_104	GKIADYNYKLPDDFT
peptide_105	DYNYKLPDDFTGCVI	peptide_106	KLPDDFTGCVIAWNS

peptide_107	DFTGCVIAWNSNNLD	peptide_108	CVIAWNSNNLDSKVG
peptide_109	WNSNNLDSKVGGNYN	peptide_110	NLDSKVGGNYNLYR
peptide_111	KVGGNLYRFLFRK	peptide_112	NYNLYRFLFRKSNLK
peptide_113	LYRFLFRKSNLKPFER	peptide_114	FRKSNLKPFERDIST
peptide_115	NLKPFERDISTEIYQ	peptide_116	FERDISTEIYQAGST
peptide_117	ISTEIYQAGSTPCNG	peptide_118	IYQAGSTPCNGVEGF
peptide_119	GSTPCNGVEGFNCYF	peptide_120	CNGVEGFNCYFPLQS
peptide_121	EGFNCYFPLQSYGFQ	peptide_122	CYFPLQSYGFQPTYG
peptide_123	LQSYGFQPTYGVGYQ	peptide_124	GFQPTYGVGYQPYRV
peptide_125	TYGVGYQPYRVVLS	peptide_126	GYQPYRVVLSFELL
peptide_127	YRVVLSFELLHAPA	peptide_128	VLSFELLHAPATVCG
peptide_129	ELLHAPATVCGPKKS	peptide_130	APATVCGPKKSTNLV
peptide_131	VCGPKKSTNLVKNKC	peptide_132	KKSTNLVKNKCVNFN
peptide_133	NLVKNKCVNFNFNGL	peptide_134	NKCVNFNFNGLTGTG
peptide_135	NFNFNGLTGTGVLTE	peptide_136	NGLTGTGVLTESNKK
peptide_137	GTGVLTESNKKFLPF	peptide_138	LTESNKKFLPFQQFG
peptide_139	NKKFLPFQQFGRDID	peptide_140	LPFQQFGRDIDDDTTD
peptide_141	QFGRDIDDDTTDAVRD	peptide_142	DIDDDTTDAVRDPQTL
peptide_143	TTDAVRDPQTLTLEILD	peptide_144	VRDPQTLTLEILDITPC
peptide_145	QTLEILDITPCSFGG	peptide_146	ILDITPCSFGGVSVI
peptide_147	TPCSFGGVSVITPGT	peptide_148	FGGVSVITPGTNTSN
peptide_149	SVITPGTNTSNQVAV	peptide_150	PGTNTSNQVAVLYQG
peptide_151	TSNQVAVLYQGVNCT	peptide_152	VAVLYQGVNCTEVPV
peptide_153	YQGVNCTEVPVAIHA	peptide_154	NCTEVPVAIHADQLT
peptide_155	VPVAIHADQLTPTWR	peptide_156	IHADQLTPTWRVYST
peptide_157	QLTPTWRVYSTGSNV	peptide_158	TWRVYSTGSNVFQTR
peptide_159	YSTGSNVFQTRAGCL	peptide_160	SNVFQTRAGCLIGAE
peptide_161	QTRAGCLIGAEHVNN	peptide_162	GCLIGAEHVNNSYEC
peptide_163	GAEHVNNSYECDIPI	peptide_164	VNNSYECDIPIGAGI
peptide_165	YECDIPIGAGICASY	peptide_166	IPIGAGICASYQTQT
peptide_167	AGICASYQTQTNSHR	peptide_168	ASYQTQTNSHRRARS
peptide_169	TQTNSHRRARSVASQ	peptide_170	SHRRARSVASQSIHA

peptide_171	ARSVASQSIIAYTMS	peptide_172	ASQSIIAYTMSLGAE
peptide_173	IIAYTMSLGAENSV	peptide_174	TMSLGAENSVAYSNN
peptide_175	GAENSVAYSNNNSIAI	peptide_176	SVAYSNNNSIAIPINF
peptide_177	SNNSIAIPINFITISV	peptide_178	IAIPINFITISVTTEI
peptide_179	INFITISVTTEILPVS	peptide_180	ISVTTEILPVSMTKT
peptide_181	TEILPVSMTKTSVDC	peptide_182	PVSMTKTSVDCTMYI
peptide_183	TKTSVDCTMYICGDS	peptide_184	VDCTMYICGDSTECS
peptide_185	MYICGDSTECSNLLL	peptide_186	GDSTECSNLLLQYGS
peptide_187	ECSNLLLQYGSFCTQ	peptide_188	LLLQYGSFCTQLNRA
peptide_189	YGSFCTQLNRALTGI	peptide_190	CTQLNRALTGIAVEQ
peptide_191	NRALTGIAVEQDKNT	peptide_192	TGIAVEQDKNTQEVF
peptide_193	VEQDKNTQEVFAQVK	peptide_194	KNTQEVFAQVKQIYK
peptide_195	EVFAQVKQIYKTPPI	peptide_196	QVKQIYKTPPIKDFG
peptide_197	IYKTPPIKDFGGFNF	peptide_198	PPIKDFGGFNFSQIL
peptide_199	DFGGFNFSQILPDPS	peptide_200	FNFSQILPDPSKPSK
peptide_201	QILPDPSKPSKRSFI	peptide_202	DPSKPSKRSFIEDLL
peptide_203	PSKRSFIEDLLFNKV	peptide_204	SFIEDLLFNKVTLAD
peptide_205	DLLFNKVTLADAGFI	peptide_206	NKVTLADAGFIKQYG
peptide_207	LADAGFIKQYGDCLG	peptide_208	GFIKQYGDCLGDIAA
peptide_209	QYGDCLGDIAARDLI	peptide_210	CLGDIAARDLICAQK
peptide_211	IAARDLICAQKFNGL	peptide_212	DLICAQKFNGLTVLP
peptide_213	AQKFNGLTVLPPLLT	peptide_214	NGLTVLPPLLTDEMI
peptide_215	VLPPLLTDEMIAQYT	peptide_216	LLTDEMIAQYTSALL
peptide_217	EMIAQYTSALLAGTI	peptide_218	QYTSALLAGTITSGW
peptide_219	ALLAGTITSGWTFGA	peptide_220	GTITSGWTFGAGAAL
peptide_221	SGWTFGAGAALQIPF	peptide_222	FGAGAALQIPFAMQM
peptide_223	AALQIPFAMQMAYRF	peptide_224	IPFAMQMAYRFNGIG
peptide_225	MQMAYRFNGIGVTQN	peptide_226	YRFNGIGVTQNVLYE
peptide_227	GIGVTQNVLYENQKL	peptide_228	TQNVLYENQKLIANQ
peptide_229	LYENQKLIANQFNSA	peptide_230	QKLIANQFNSAIGKI
peptide_231	ANQFNSAIGKIQDSL	peptide_232	NSAIGKIQDLSLSTA
peptide_233	GKIQDLSLSTASALG	peptide_234	DSLSTASALGKLQD

peptide_235	STASALGKLQDVVNQ	peptide_236	ALGKLQDVVNQNAQA
peptide_237	LQDVVNQNAQALNTL	peptide_238	VNQNAQALNTLVKQL
peptide_239	AQALNTLVKQLSSNF	peptide_240	NTLVKQLSSNFGAIS
peptide_241	KQLSSNFGAISSVLN	peptide_242	SNFGAISSVLNDILA
peptide_243	AISSVLNDILARLDK	peptide_244	VLNDILARLDKVEAE
peptide_245	ILARLDKVEAEVQID	peptide_246	LDKVEAEVQIDRLIT
peptide_247	EAEVQIDRLITGRLQ	peptide_248	QIDRLITGRLQSLQT
peptide_249	LITGRLQSLQTYVTQ	peptide_250	RLQSLQTYVTQQLIR
peptide_251	LQTYVTQQLIRAAEI	peptide_252	VTQQLIRAAEIRASA
peptide_253	LIRAAEIRASANLAA	peptide_254	AEIRASANLAATKMS
peptide_255	ASANLAATKMSECVL	peptide_256	LAATKMSECVLGQSK
peptide_257	KMSECVLGQSKRVDF	peptide_258	CVLGQSKRVDFCGKG
peptide_259	QSKRVDFCGKGYHLM	peptide_260	VDFCGKGYHLMSEFPQ
peptide_261	GKGYHLMSEFPQSAPH	peptide_262	HLMEFPQSAPHGVWF
peptide_263	FPQSAPHGVVFLHVT	peptide_264	APHGVVFLHVTVVPA
peptide_265	VVFLHVTVVPAQEKN	peptide_266	HVTVVPAQEKNFTTA
peptide_267	VPAQEKNFTTAPAIC	peptide_268	EKNFTTAPAICHGDK
peptide_269	TTAPAICHGDKAHFP	peptide_270	AICHGDKAHFPREGV
peptide_271	DGKAHFPREGVFSN	peptide_272	HFPREGVFSNGTHW
peptide_273	EGVFSNGTHWFVTQ	peptide_274	VSNGTHWFVTQRNFY
peptide_275	THWFVTQRNFYEPQI	peptide_276	VTQRNFYEPQIITTH
peptide_277	NFYEPQIITTHNTFV	peptide_278	PQIITTHNTFVSGNC
peptide_279	TTHNTFVSGNCDWVI	peptide_280	TFVSGNCDWIGIVN
peptide_281	GNCDWIGIVNNTVY	peptide_282	WIGIVNNTVYDPLQ
peptide_283	IVNNTVYDPLQPELD	peptide_284	TVYDPLQPELDSFKE
peptide_285	PLQPELDSFKEELDK	peptide_286	ELDSFKEELDKYFKN
peptide_287	FKEELDKYFKNHTSP	peptide_288	LDKYFKNHTSPDVDL
peptide_289	FKNHTSPDVDLGDIS	peptide_290	TSPDVDLGDISGINA
peptide_291	VDLGDISGINASVWN	peptide_292	DISGINASVNIQKE
peptide_293	INASVNIQKEIDRL	peptide_294	VVNIQKEIDRLNEVA
peptide_295	QKEIDRLNEVAKNLN	peptide_296	DRLNEVAKNLNESLI
peptide_297	EVAKNL NESLIDLQE	peptide_298	NL NESLIDLQELGKY

peptide_299	SLIDLQELGKYEQYI	peptide_300	LQELGKYEQYIKWPW
peptide_301	GKYEQYIKWPWYIWL	peptide_302	QYIKWPWYIWLGFIA
peptide_303	WPWYIWLGFIAGLIA	peptide_304	IWLGFIAGLIAIVMV
peptide_305	FIAGLIAIVMTIML	peptide_306	LIAIVMTIMLCCMT
peptide_307	VMVTIMLCCMTSCCS	peptide_308	IMLCCMTSCCSCLKG
peptide_309	CMTSCCSCLKGCCSC	peptide_310	CCSCLKGCCSCGSCC
peptide_311	LKGCCSCGSCCKFDE	peptide_312	CSCGSCCKFDEDDSE
peptide_313	SCCKFDEDDSEPVLK	peptide_314	FDEDDSEPVLKGVKL
peptide_315	DSEPVLKGVKLHYT		
