

PepPool: SARS-CoV-2 (S1), scanning

Product code: 3629-1

Contents: The SARS-CoV-2 S1 scanning pool contains 166 peptides from the human SARS-CoV-2 virus. The peptides are 15-mers overlapping with 11 amino acids, covering the S1 domain of the spike protein (amino acid 13-685). The pool is supplied in two vials: pool 1 SARS-CoV-2 S1 peptides 1-83 (83 peptides) and pool 2 SARS-CoV-2 S1 peptides 84-166 (83 peptides). The mean purity of the synthetic peptides is 80%.

Applications: The peptide pool is recommended for enumeration of cytokine secreting T cells specific for the SARS-CoV-2 S1 protein with ELISpot/FluoroSpot. The peptide pool has been validated using human PBMC from COVID-19 convalescent individuals previously PCR-confirmed as SARS-CoV-2 positive. The peptides can also induce specific T-cell responses in splenocytes from mice immunized with SARS-CoV-2 spike protein.

Instructions: Sterile handling is recommended. The SARS-CoV-2 S1 pools can either be used separately or mixed. If used separately, dissolve the lyophilized peptide pools by addition of 40 µl DMSO to each vial, then add 85 µl PBS. If mixed, first add 40 µl DMSO to pool 1 and transfer the solution into pool 2, then add 85 µl PBS. The concentration of these stock solutions are 200 µg/ml of each peptide. Aliquote the pools and store at -20°C or below. This stock solution will have a concentration of 200 µg/ml of each peptide.

Dilute the stock solution 1:100 in cell culture medium to obtain 2 µg/ml of each peptide in the cell culture. Use the peptide pool in ELISpot and FluoroSpot assay for stimulation of 250,000 cells per well. Use the diluted peptide solution fresh.

Storage: Shipped at ambient temperature. Store frozen at -20°C or below upon receipt. After reconstitution, store aliquotes at -20°C or below. We recommend the aliquots not be refrozen after initial use.

Quantity: Two vials (pool 1+2), 25 µg of each peptide

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Note; for research use only.
Mabtech shall not be liable for the use or handling of the product or for consequential, special, indirect or incidental damages therefrom.

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Developed and manufactured by MABTECH AB, Sweden, whose quality management system complies with the standards ISO 9001:2015 & ISO 13485:2016.

Peptides included in PepPool: SARS-CoV-2 (S1), scanning

Peptide	Sequence
Pool 1 (1-83)	
1	SQCVNLTTRTQLPPA
2	NLTTTRTQLPPAYTNS
3	RTQLPPAYTNSFTRG
4	PPAYTNSFTRGVVYP
5	TNSFTRGVVYPDKVF
6	TRGVVYPDKVFRSSV
7	YYPDKVFRSSVLHST
8	KVFRSSVLHSTQDLF
9	SSVLHSTQDLFLPFF
10	HSTQDLFLPFFSNVT
11	DLFLPFFSNVTFHFA
12	PFFSNVTFHFAIHVS
13	NVTFHFAIHVSGTNG
14	FHFAIHVSGTNGTKRF
15	HVSGTNGTKRFDNPV
16	TNGTKRFDNPVLPFN
17	KRFDNPVLPFNDGVY
18	NPVLPFNDGVYFAST
19	PFNDGVYFASTKSN
20	GVYFASTKSNIRG
21	ASTKSNIRGWIFG
22	KSNIRGWIFGTTLD
23	IRGWIFGTTLDSTKTQ
24	IFGTTLDSTKTQSLLI
25	TLDSKTQSLLIIVNNA
26	KTQSLLIIVNNATNVV
27	LLIIVNNATNVVIKVC
28	NNATNVVIKVCCEFQF
29	NVVIKVCCEFQFCNDP
30	KVCEFQFCNDPFLGV
31	FQFCNDPFLGVVYHK
32	NDPFLGVVYHKNNKS
33	LGVVYHKNNKSWMES
34	YHKNNKSWMESEFRV
35	NKSWMESEFRVYSSA
36	MESEFRVYSSANNCT
37	FRVYSSANNCTFEYV
38	SSANNCTFEYVSQPF
39	NCTFEYVSQPFMDL
40	EYVSQPFMDLEGKQ
41	QPFMDLEGKQGNFK
42	MDLEGKQGNFKNLRE
43	GKQGNFKNLREFVFK
44	NFKNLREFVFKNIDG
45	LREFVFKNIDGYFKI
46	VFKNIDGYFKIYSKH
47	IDGYFKIYSKHTPIN
48	FKIYSKHTPINLVRD
49	SKHTPINLVRDLPQG
50	PINLVRDLPQGFSAL
51	VRDLPQGFSALEPLV
52	PQGFSALEPLVDLPI
53	SALEPLVDLPIGINI
54	PLVDLPIGINITRFQ

Peptide	Sequence
57	RFQTLALHRSYLTP
58	LLALHRSYLTGPDSS
59	HRSYLTGPDSSSGWT
60	LTPGDDSSSGWTAGAA
61	DSSSGWTAGAAAYV
62	GWTAGAAAYVGYLQ
63	GAAAYVGYLQPRTF
64	YVGYLQPRTFLLKY
65	YLQPRTFLLKYNENG
66	RTFLLKYNENGTITD
67	LKYNENGTITDAVDC
68	ENGTITDAVDCALDP
69	ITDAVDCALDPLSET
70	VDCALDPLSETKCTL
71	LDPLSETKCTLKSFT
72	SETKCTLKSFTVEKG
73	CTLKSFTVEKGIYQT
74	SFTVEKGIYQTSNFR
75	EKGIYQTSNFRVQPT
76	YQTSNFRVQPTESIV
77	NFRVQPTESIVRFPN
78	QPTESIVRFPNITNL
79	SIVRFPNITNLCPFG
80	FPNITNLCPFGEVFN
81	TNLCPFGEVFNATRF
82	PFGEVFNATRFASVY
83	VFNATRFASVYAWNR

Pool 2 (84-166)

84	TRFASVYAWNRKRIS
85	SVYAWNRKRISNCVA
86	WNRKRISNCVADYSV
87	RISNCVADYSVLYNS
88	CVADYSVLYNSASF
89	YSVLYNSASFSTFKC
90	YNSASFSTFKCYGVS
91	SFSTFKCYGVSPTKL
92	FKCYGVSPTKLNLDL
93	GVSPKLNLDLCFTNV
94	TKLNLDLCFTNVYADS
95	DLCFNTVYADSFVIR
96	TNVYADSFVIRGDEV
97	ADSFVIRGDEVVIRQIA
98	VIRGDEVVIRQIAPGQT
99	DEVVIRQIAPGQTGKIA
100	QIAPGQTGKIADYNY
101	GQTGKIADYNYKLPD
102	KIADYNYKLPDDFTG
103	YNYKLPDDFTGCVIA
104	LPDDFTGCVIAWNSN
105	FTGCVIAWNSNLDL
106	VIAWNSNLDLDSKVG
107	NSNLDLDSKVGNYNY
108	LDSKVGNYNYLRLFR
109	VGGNYNYLRLFRK

Peptide	Sequence
112	RKSNLKPFRDISTE
113	LKPFERDISTEIQQA
114	ERDISTEIQAGSTP
115	STEIQAGSTPCNGV
116	YQAGSTPCNGVEGFN
117	STPCNGVEGFNCYFP
118	NGVEGFNCYFPLQSY
119	GFNCYFPLQSYGFQP
120	YFPLQSYGFQPTNGV
121	QSYGFQPTNGVGYQP
122	FQPTNGVGYQPYRVV
123	NGVGYQPYRVVLSF
124	YQPYRVVLSFELLH
125	RVVVLSFELLHAPAT
126	LSFELLHAPATVCGP
127	LLHAPATVCGPKKST
128	PATVCGPKKSTNLVK
129	CGPKKSTNLVKNKCV
130	KSTNLVKNKCVNFN
131	LVKNKCVNFNGLT
132	KCVNFNFNGLTGTGV
133	FNFNGLTGTGVLTES
134	GLTGTGVLTESNKKF
135	TGVLTESNKKFLPFQ
136	TESNKKFLPFQFGR
137	KKFLPFQFGRDIAD
138	PFQFGRDIADTTDA
139	FGRDIADTTDAVRDP
140	IADTTDAVRDPQTL
141	TDAVRDPQTLLEIDI
142	RDPQTLLEIDITPCS
143	TLEIDITPCSFGGV
144	LDITPCSFGGVSVIT
145	PCSFGGVSVITPGTN
146	GGVSVITPGTNTSNQ
147	VITPGTNTSNQVAVL
148	GTNTSNQVAVLYQDV
149	SNQVAVLYQDVNCTE
150	AVLYQDVNCTEVPVA
151	QDVNCTEVPVAIHAD
152	CTEVPVAIHADQLTP
153	PVAIHADQLTPTWRV
154	HADQLTPTWRVYSTG
155	LTPTWRVYSTGNSVF
156	WRVYSTGNSVVFQTRA
157	STGNSVVFQTRAGCLI
158	NVFQTRAGCLIGAEH
159	TRAGCLIGAEHVNS
160	CLIGAEHVNSYEC
161	AEHVNSYECDIPIG
162	NNSYECDIPIGAGIC
163	ECDIPIGAGICASYQ
164	PIGAGICASYQTQTN
165	GICASYQTQTNSPRR
166	SYQTQTNSPRRAR