

# PepPool: SARS-CoV-2 (SNMO), human

**Product code:** 3622-1

**Contents:** The SARS-CoV-2 SNMO defined peptide pool contains 47 peptides from the human SARS-CoV-2 virus. The peptides are derived from the spike (S), nucleoprotein (N), membrane protein (M) and open reading frame (ORF)-3a, and ORF-7a proteins (O). The purity of the synthetic peptides range from 60-99%.

**Applications:** The peptide pool is recommended for enumeration of cytokine secreting T cells specific for SARS-CoV-2 S, N, M, and O proteins 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.

**Instructions:** Sterile handling is recommended. Dissolve the lyophilized peptide pool by addition of 40 µl DMSO to the vial. Then add 85 µl PBS, mix and aliquote 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 250,000-500,000 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:** One vial with 25 ug of each peptide.

Reference: Peng Y, *et al.* Broad and strong memory CD4+ and CD8+ T cells induced by SARS-CoV-2 in UK convalescent COVID-19 patients. *Nature Immunology*, vol 21, Nov 2020.

# MABTECH

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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 (SNMO), human

Peptide	ID	Sequence	Epitope source
1	S-34	CTFEYVSQPFLMDLE	Spike
2	S-39	EFVFKNIDGYFKIYS	Spike
3	S-42	KHTPINLVRDLPQGF	Spike
4	S-43	NLVRDLPQGFSALEP	Spike
5	S-71	YAWNRKRISNCVADY	Spike
6	S-77	GVSPTKLNDLCFTNV	Spike
7	S-90	GGNYNYLRLFRKSN	Spike
8	S-91	YLYRFLFRKSNLKPFE	Spike
9	S-103	VVLSFELLHAPATVC	Spike
10	S-106	GPKKSTNLVKNKCVN	Spike
11	S-145	SVTTEILPVSMTKTS	Spike
12	S-150	STECSNLLQYGSFC	Spike
13	S-151	NLLQYGSFCTQLNR	Spike
14	S-161	NFSQILPDPSKPSKR	Spike
15	S-174	TDEMIAQYTSALLAG	Spike
16	S-235	GINASVVNIQKEIDR	Spike
17	S-240	LIDLQELGKYEQYI	Spike
18	S-242	YEQYIKWPWYIWLGF	Spike
19	NP-1	MSDNGPQNQRNAPRITF	Nucleoprotein
20	NP-2	NQRNAPRITFGGPSDSTG	Nucleoprotein
21	NP-12	DQIGYYRRATRRIR	Nucleoprotein
22	NP-15	MKDLSRWYFYFL	Nucleoprotein
23	NP-16	LSPRWYFYFLGTGPEAGL	Nucleoprotein
24	NP-46	AFFGMSRIGMEVTPSGTW	Nucleoprotein
25	NP-47	GMEVTPSGTWLTYTGAIK	Nucleoprotein
26	NP-48	TWLTYTGAIKLDDKDPNF	Nucleoprotein
27	NP-50	PNFKDQVILLNKHIDAYK	Nucleoprotein
28	NP-51	LLNKHIDAYKTFPPEPK	Nucleoprotein
29	M-19	LLESELVIGAVILRGHLR	Membrane protein
30	M-20	GAVILRGHLRIAGHHLGR	Membrane protein
31	M-21	LRIAGHHLGRCDIKDLPK	Membrane protein
32	M-23	PKEITVATSRTLSYYKL	Membrane protein
33	M-24	TSRTLSYYKLGASQRVA	Membrane protein
34	M-28	IGNYKLNTDHSSSDNIA	Membrane protein
35	ORF-3a-20	YFLCWHTNCYDYCIPIY	ORF 3a
36	ORF-3a-27	KDCVVLHSYFTSDYYQLY	ORF 3a
37	ORF-3a-28	YFTSDYYQLYSTQLSTDTGV	ORF 3a
38	ORF-3a-30	GVEHVTFIYNKIVDEPEEH	ORF 3a
39	ORF-7a-2	LITLATCELYHYQECVR	ORF 7a
40	ORF-7a-7	FHPLADNKFALTCFSTQF	ORF 7a
41	ORF-7a-10	DGVKHVYQLRARSVSPKL	ORF 7a
42	N-E-01	ILLNKHID	Nucleoprotein
43	N-E-03	MEVTPSGTWL	Nucleoprotein
44	S-E-19	QLIRAAEIRASANLAATK	Spike
45	N	SPRWYFYFL	Nucleoprotein
46	N	YLG TGPEAGL	Nucleoprotein
47	N	YYLGTGPEA	Nucleoprotein