

# Product Datasheet

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

Product code:	3632-1
Contents:	The SARS-CoV-2 NMO defined peptide pool contains 101 peptides from the human SARS-CoV-2 virus. The peptides are derived from the nucleoprotein (N), membrane protein (M) and open reading frame (ORF) proteins (O) ORF1, nsp3, ORF-3a, ORF-7a, and ORF8. The mean purity of the synthetic peptides is 87%.
Applications:	The peptide pool is recommended for enumeration of cytokine secreting T cells specific for SARS-CoV-2 N, M, and O proteins with ELISpot/FluoroSpot. The peptide pool has been validated using human PBMC from COVID-19 convalescent individuals.
Instructions:	<p>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.</p> <p>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.</p>
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 µg of each peptide.
	<p>References: Peng Y, <i>et al.</i> Broad and strong memory CD4+ and CD8+ T cells induced by SARS-CoV-2 in UK convalescent COVID-19 patients. <i>Nature Immunology</i>, vol 21, Nov 2020.</p> <p>Tarke, <i>et al.</i> Comprehensive analysis of T cell immunodominance and immunoprevalence of SARS-CoV-2 epitopes in COVID-19 cases.2021, <i>Cell Reports Medicine</i> 2, Feb 16.</p>



Note; for research use only.

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## Published HLA types covered by the SARS-CoV-2 NMO defined peptide pool

A*01:01	DRB1*01:01
A*02:01	DRB1*01:02
A*03:01	DRB1*03:01
A*11:01	DRB1*04:01
A*24:02	DRB1*04:02
A*26:01	DRB1*04:04
A*30:01	DRB1*04:05
A*30:02	DRB1*07:01
A*68:01	DRB1*08:01
A*68:02	DRB1*08:02
B*07:02	DRB1*09:01
B*08:01	DRB1*10:01
B*15:01	DRB1*11:01
B*27:05	DRB1*11:04
B*27:06	DRB1*12:01
B*35:01	DRB1*12:02
B*40:01	DRB1*13:01
B*44:02	DRB1*13:03
B*44:03	DRB1*14:01
B*45:01	DRB1*14:06
B*51:01	DRB1*15:01
B*53:01	DRB1*15:02
B*54:01	DRB1*16:01
B*57:01	DRB1*16:02
C*07:01	DRB3*01:01
C*07:02	DRB4*01:01
DQB1*02:01	DRB5*01:01
DQB1*02:02	
DQB1*03:01	
DQB1*03:02	
DQB1*03:03	
DQB1*05:01	
DQB1*05:02	
DQB1*05:03	
DQB1*06:01	
DQB1*06:02	
DQB1*06:03	