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SARS-CoV-2 (NS8) Peptide Pool

SARS-CoV-2 (NS8) peptide pool for immune cell activation

Catalog # 100-0663 | 1 Unit | ~25 µg (15 nmol)/peptide

Product Description

SARS-CoV-2 (NS8) Peptide Pool is a lyophilized mixture of 28 peptides from non-structural protein 8 (NS8) of SARS-CoV-2. NS8 has been identified as one of the proteins exclusively conserved in a few species of the coronavirus family (Fahmi et al.), and it contains Class II MHC epitopes (Slathia & Sharma). The pool consists of 15-mer peptides with 11-amino-acid overlaps that cover amino acids 1 - 121 on NS8. One unit of this product (i.e. ~25 µg/peptide) is sufficient for stimulating 2.5 x 10^8 cells.

Product Information

Amino Acid Sequence:	MKFLVFLGIITTVAAFHQECSLQSCTQHQPYVVDDPCPIHFYSKWYIRVGARKSAPLIELCVDEAGSKSPIQYI DIGNYTVSCLPFTINCQEPKLGSLVVRCSFYEDFLEYHDVRVVLDFI
Product Formulation:	Lyophilized as trifluoroacetate salts
Source:	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)
Number of Peptides:	28
Protein ID:	P0DTC8
Protein Name:	Non-structural protein 8, NS8
Gene Name:	NS8
Purity:	Average 70%

Preparation and Storage

Stability and Storage:	Store at -20°C. Stable as supplied until expiry date (EXP) on label.
Preparation:	Warm to room temperature (15 - 25°C) before reconstitution. Add pure dimethyl sulfoxide (DMSO; ~40 µL) and dilute with water to the desired concentration. Final concentration of DMSO must be below 1% (v/v) to avoid toxicity in the biological system. If not used immediately, aliquot and store at -20°C. Protect from light. Avoid repeated freeze-thaw cycles.

Related Products

For a complete list of cytokines or peptide pools, as well as related products available from STEMCELL Technologies, visit www.stemcell.com/cytokines or contact us at techsupport@stemcell.com.

References

Fahmi M et al. (2020) Nonstructural proteins NS7b and NS8 are likely to be phylogenetically associated with evolution of 2019-nCoV. Infect Genet Evol 81: 104272.

Slathia PS & Sharma P. (2020) Prediction of T and B cell epitopes in the proteome of SARS-CoV-2 for potential use in diagnostics and vaccine design. ChemRxiv. Epub ahead of print, DOI: 10.26434/chemrxiv.12116943.v1.