

# SARS-CoV-2 (NS8) Peptide Pool

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

Catalog #100-0663

~25 µg/peptide



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## Product Description

The 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.

## Product Information

Number of Peptides:	28
Source:	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)
Protein ID:	P0DTC8 (Swiss-Prot)
Protein Name:	Non-structural protein 8; NS8
Protein Sequence:	MKFLVFLGIITTVAAAFHQECSLQSQCTQHQPYYVDDPCPIHFYSKWYIRVGARKSAPLIELCVDEAGSKSPIQYIDIGNYT VSCLPFTINCQEPKLGSLVVRCSFYEDFLEYHDVRVWLDI
Gene Name:	NS8
Purity:	Average 70%
Formulation:	Lyophilized as trifluoroacetate salts

## Preparation and Storage

Storage:	Store at -20°C.
Stability:	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. After thawing aliquots, do not re-freeze.

## Related Products

For a complete list of peptide pools, as well as related products available from STEMCELL Technologies, visit [www.stemcell.com](http://www.stemcell.com) or contact us at [techsupport@stemcell.com](mailto: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.

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