

# SARS-CoV-2 (NS7b) Peptide Pool

SARS-CoV-2 (NS7b) peptide pool for immune cell activation

Catalog # 100-0662

1 Unit

~25 µg (15 nmol)/peptide

## Product Description

SARS-CoV-2 (NS7b) Peptide Pool is a lyophilized mixture of 8 peptides from non-structural protein 7b (NS7b) of SARS-CoV-2. NS7b is likely to be phylogenetically associated with the evolution of 2019 coronavirus, and it is involved in human-virus interaction (Bharath et al.; Fahmi et al.). The pool consists of 15-mer peptides with 11-amino-acid overlaps that cover amino acids 1 - 43 on NS7b. One unit of this product (i.e. ~25 µg/peptide) is sufficient for stimulating  $2.5 \times 10^8$  cells.

## Product Information

Amino Acid Sequence:	MIELSLIDFYLCFLAFLFLVLIMLIIFWFSLELQDHNETCHA
Product Formulation:	Lyophilized as hydrochloride salts
Source:	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)
Number of Peptides:	8
Protein ID:	P0DTD8
Protein Name:	Non-structural protein 7b, NS7b
Gene Name:	NS7b
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](http://www.stemcell.com/cytokines) or contact us at [techsupport@stemcell.com](mailto:techsupport@stemcell.com).

## References

Bharath BR et al. (2020) In silico screening of known small molecules to bind ACE2 specific RBD on spike glycoprotein of SARS-CoV-2 for repurposing against COVID-19. F1000Res 9: 663.

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.

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