SARS-CoV-2 (NS6) Peptide Pool

SARS-CoV-2 (NS6) peptide pool for immune cell activation

Catalog #100-0660 ~25 µg/peptide

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Product Description

The SARS-CoV-2 (NS6) Peptide Pool is a lyophilized mixture of 13 peptides from non-structural protein 6 (NS6) of SARS-CoV-2. SARS-CoV NS6 has been shown to localize in the endoplasmic reticulum/Golgi membrane of the host cell and disrupt nuclear import complex formation (Frieman et al.). This leads to the loss of STAT1 transport into the nucleus and inactivation of STAT1-activated genes that are required for antiviral effects (Bharath et al.; Frieman et al.). The sequence similarity of NS6 from the two coronaviruses suggests NS6 plays a similar role in SARS-CoV-2. The pool consists of 15-mer peptides with 11-amino-acid overlaps that cover amino acids 1 - 61 on NS6.

Product Information

Number of Peptides:	13
Source:	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)
Protein ID:	P0DTC6 (Swiss-Prot)
Protein Name:	ORF6 Protein; Non-structural protein 6; NS6
Protein Sequence:	MFHLVDFQVTIAEILLIIMRTFKVSIWNLDYIINLIIKNLSKSLTENKYSQLDEEQPMEID
Gene Name:	NS6
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 or contact us at 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.

Frieman M et al. (2007) Severe acute respiratory syndrome coronavirus ORF6 antagonizes STAT1 function by sequestering nuclear import factors on the rough endoplasmic reticulum/Golgi membrane. J Virol 81(18): 9812–24.