SARS-CoV-2 (Nucleocapsid Protein) Peptide Pool

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

Catalog #100-0647 ~25 µg/peptide

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Product Description

The SARS-CoV-2 (Nucleocapsid Protein) Peptide Pool is a lyophilized mixture of 102 peptides from the nucleocapsid protein of SARS-CoV-2. Nucleocapsid protein is one of four structural proteins that interacts with RNA to form the nucleocapsid. It also interacts with membrane protein (protein M) in the packaging of positive-strand viral genome RNA during virion assembly (Ahmed et al.; Chang et al.; Kannan et al.; Li et al.; Zhou et al.). The pool consists of 15-mer peptides with 11-amino-acid overlaps that cover amino acids 1 - 419 on SARS-CoV-2 nucleocapsid protein.

Product Information

Number of Peptides:	102
Source:	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)
Protein ID:	P0DTC9 (Swiss-Prot)
Protein Name:	N Protein; Nucleocapsid protein
Protein Sequence:	MSDNGPQNQRNAPRITFGGPSDSTGSNQNGERSGARSKQRRPQGLPNNTASWFTALTQHGKEDLKFPRGQGVPI NTNSSPDDQIGYYRRATRRIRGGDGKMKDLSPRWYFYYLGTGPEAGLPYGANKDGIIWVATEGALNTPKDHIGTRN PANNAAIVLQLPQGTTLPKGFYAEGSRGGSQASSRSSSRSRNSSRNSTPGSSRGTSPARMAGNGGDAALALLLLD RLNQLESKMSGKGQQQQGQTVTKKSAAEASKKPRQKRTATKAYNVTQAFGRRGPEQTQGNFGDQELIRQGTDY KHWPQIAQFAPSASAFFGMSRIGMEVTPSGTWLTYTGAIKLDDKDPNFKDQVILLNKHIDAYKTFPPTEPKKDKKKK ADETQALPQRQKKQQTVTLLPAADLDDFSKQLQQSMSSADSTQA
Gene Name:	N
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

Ahmed SF et al. (2020) Preliminary identification of potential vaccine targets for the COVID-19 Coronavirus (SARS-CoV-2) based on SARS-CoV immunological studies. Viruses 12(3): 254.

Chang CK et al. (2006) Modular organization of SARS coronavirus nucleocapsid protein. J Biomed Sci 13(1): 59–72.

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Li H et al. (2020) Coronavirus disease 2019 (COVID-19): current status and future perspectives. Int J Antimicrob Agents 55(5): 105951.

Zhou P et al. (2020) A pneumonia outbreak associated with a new coronavirus of probable bat origin. Nature 579(7798): 270–3.

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