Recombinant SARS-CoV N Protein, His-tagged

Cat. No. N-889S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant SARS-CoV-2 N-protein (Nucleoprotein, C-terminal 6×His-Tag) produced in Nicotiana benthamiana by Agrobacterium-mediated transient expression.
Species	SARS-CoV, Wuhan-Hu-1 (UniProtKB – P0DTC9 (NCAP_SARS2))
Source	Nicotiana Benthamiana
Description	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is an enveloped, positive-sense, single-stranded RNA virus that causes coronavirus disease 2019 (COVID-19). Virus particles include the RNA genetic material and structural proteins needed for invasion of host cells. Once inside the cell the infecting RNA is used to encode structural proteins that make up virus particles, nonstructural proteins that direct virus assembly, transcription, replication and host control and accessory proteins whose function has not been determined.~ The structural proteins of SARS-CoV-2 include the envelope protein (E), spike or surface glycoprotein (S), membrane protein (M) and the nucleocapsid protein (N). The nucleocapsid phosphoprotein is a structural protein that binds to, protects the viral RNA genome and is involved in packaging the RNA into virus particles. The N protein has been suggested as an antiviral drug target.
Form	Lyophilized
Molecular Mass	46.5 kDa
AA Sequence	MSDNGPQNQRNAPRITFGGPSDSTGSNQNGERSGARSKQRRPQGLPNNTASWFT

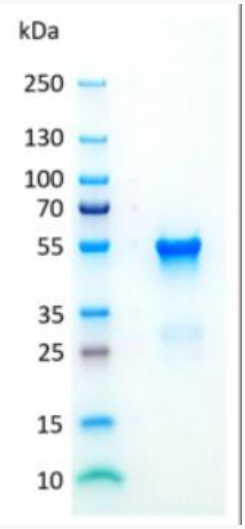
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	ALTQHGKEDLKFPRGQGVPINTNSSPDDQIGYYRRATRRIRGGDGKMKDLSPRWYF YYLGTGPEAGLPYGANKDGIIWVATEGALNTPKDHIGTRNPANNAAIVLQLPQGTTLP KGFYAEGSRGGSQASSRSSSRSRNSSRNSTPGSSRGTSPARMAGNGGDAALALLL LDRLNQLESKMSGKGQQQQGQTVTKKSAAEASKKPRQKRTATKAYNVTQAFGRR GPEQTQGNFGDQELIRQGTDYKHWPQIAQFAPSASAFFGMSRIGMEVTPSGTWLT YTGAIKLDDKDPNFKDQVILLNKHIDAYKTFPPTEPKKDKKKKADETQALPQRQKKQ QTVTLLPAADLDDFSKQLQQSMSSADSTQAHHHHHH
Purity	>90%
Applications	SDS-PAGE, Western Blot, functional assays
Storage	Lyophilized materials are stable for up to twelve months from date of receipt at -70 centigrade. It is recommended that reconstituted protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	1.59 mg/mL prior to lyophilization (analyzed by A280 measurement)
Storage Buffer	20 mM HEPES, 300 mM NaCl, pH 7.5, 175 mM Trehalose Dihydrate.

GENE INFORMATION

Gene Name	N nucleocapsid phosphoprotein [Severe acute respiratory syndrome coronavirus 2]
Official Symbol	N
Synonyms	N; nucleocapsid phosphoprotein; ORF9; structural protein
Gene ID	43740575

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Protein Refseq	YP_009724397
UniProt ID	P0DTC9
SDS-PAGE	 Reducing 4-20% SDS-PAGE analysis of 2.5 mg SARS-COV-2 N-Protein. Product runs as a dimer.

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