

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 6xHis-Tag) produced in <i>Nicotiana benthamiana</i> by Agrobacterium-mediated transient expression.
Species	SARS-CoV, Wuhan-Hu-1 (UniProtKB – P0DTC9 (NCAP_SARS2))
Source	<i>Nicotiana Benthamiana</i>
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	MSDNGPQNQRNAPRITFGGSPDSTGSNQNGERSGARSKQRRPQGLPNNTASWFT

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ALTQHGKEDLKFPARGQGVPIINTNSSPDDQIGYYRRATRRIRGGDGKMKDLSRWYF
 YYLGTGPEAGLPYGANKDGIWVATEGALNTPKDHIGTRNPANNAIVLQLPQGTTLP
 KGFYAEGSRGGSQASSRSSSRSRNSSRNSTPGSSRGTSPTARMAGNGGDAALALLL
 LDRLNQLESKMSGKGGQQGQTVTKKSAAEASKKPRQKRTATKAYNVTQAFGRR
 GPEQTQGNFGDQELIRQGTDYKHWPQIAQFAPSASAFFGMSRIGMEVTPSGTWLT
 YTGAIKLDDKDPNFKDQVILLNKHIDAYKTFPPTPKKDKKKKADETQALPQRQKKQ
 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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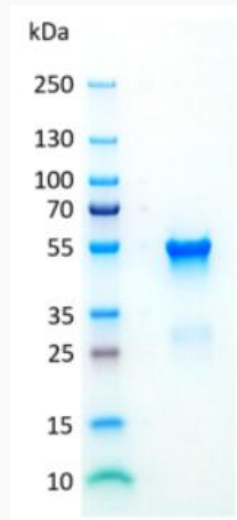
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Protein Refseq YP_009724397

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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