

Recombinant SARS-CoV-2 (2019-nCoV) Nucleocapsid Protein, His-tagged

Cat. No. N-999S **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant SARS-CoV-2 (2019-nCoV) Nucleocapsid (1-419aa), fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Species

SARS-CoV-2

Source

HEK293

ProteinLength

1-419aa

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.

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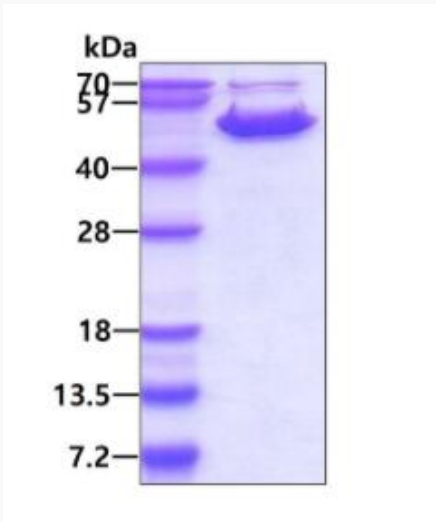
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Form	Liquid
Molecular Mass	46.4 kDa (425aa)
AA Sequence	MSDNGPQNQRNAPRITFGG PSDSTGSNQNGERSGARSKQRRPQGLPNNTASWFT ALTQH GKEDLKFP RGQGV PINTNSSPDDQIGYYRRATRRIRGGDGKMKDLSPRWYF YYLGTGPEAGLPYGANKDGIWVATEGALNTPKDHIGTRNPANNAIVLQLPQGTTLP KGFYAEGSRGGSQASSRSSSRN SSRNSTPGSSRGTS PARMAGN GGDAALALL LDRLNQLESKMSGKGQQQGGQTVTKKSAAEASKKPRQKRTATKAYNVTQAFGRR GPEQTQGNFGDQELIRQGT DYKHWPQIAQFAPSASAFFGMSRIGMEVTPSGTWLT YTGAIKLDDKDPNFKDQVILLNKHIDAYKTFPTEPKDKKKKADETQALPQRQKKQ QTVTLLPAADLDDFSKQLQQSMSSADSTQA
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/mL (determined by Absorbance at 280nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 50% glycerol
GENE INFORMATION	
Gene Name	N nucleocapsid phosphoprotein [Severe acute respiratory syndrome coronavirus 2]
Official Symbol	N

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Synonyms	N; nucleocapsid phosphoprotein; nucleocapsid phosphoprotein; ORF9; structural protein
Gene ID	43740575
Protein Refseq	YP_009724397
UniProt ID	P0DTC9
SDS-PAGE	 3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain