

Recombinant 2019-nCoV Nucleocapsid Protein, His-tagged

Cat. No. N-035C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length 2019-nCoV Nucleocapsid (N) Protein was expressed in E. coli cells with a C-terminal His tag.
Species	Sars-Cov-2
Source	E.coli
Description	CoV N protein is an RNA-binding protein primarily involved in binding to the viral RNA genome during packaging of viral RNA into a helical ribonucleoproteins or nucleocapsid structure. In addition, N-protein regulates viral RNA synthesis during replication/transcription and modulates host-pathogen interactions, such as such as actin reorganization, host cell cycle progression, and apoptosis. N protein is abundantly expressed during infection and antibodies against N-protein have been detected in confirmed cases of Covid-19. Therefore, N-protein is a potent antigen that provides basis for future vaccine and diagnostic kit development
Molecular Mass	52 kDa
Purity	> 90%
Applications	ELISA
Stability	One year at -70 centigrade from date of shipment.
Storage	Store product at –70 centigrade. For optimal storage, aliquot targets into smaller

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quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Concentration 2 µg/µL

Storage Buffer Recombinant protein stored in 10mM PBS, pH8.0, 50mM NaCl, 0.05% Na3N.

Shipping Dry ice

GENE INFORMATION

Gene Name N nucleocapsid phosphoprotein [Severe acute respiratory syndrome coronavirus 2]

Official Symbol N

Synonyms N; nucleocapsid phosphoprotein; nucleocapsid phosphoprotein; ORF9; structural protein

Gene ID 43740575

mRNA Refseq MN908947

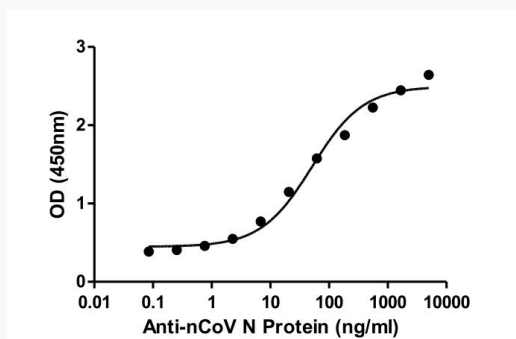
Protein Refseq YP_009724397

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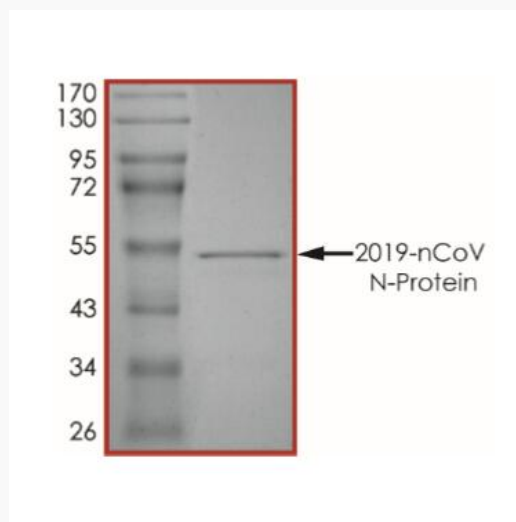
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Activity



Binding of Anti-2019-nCoV N-Protein Antibody to immobilized 2019-nCoV Nucleocapsid (N) Protein determined by ELISA using Goat anti-human Fc-HRP.

SDS-PAGE



The purity was determined to be >90% by densitometry, approx. MW 52 kDa.