

Recombinant 2019-nCoV Nucleocapsid Protein CTD Protein, His-tagged

Cat. No. N-312 Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant 2019-nCoV Nucleocapsid (N) Protein C-terminal domain (237-419) was expressed in E. coli cells with a C-terminal His tag.
Species	Sars-Cov-2
Source	E.coli
ProteinLength	237-419
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.
Molecular Mass	Approx 26 kDa

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Purity	> 90%
Stability	One year at -70 centigrade from data of shipment.
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	1.0 µg/µL
Storage Buffer	Recombinant protein stored in 50 mM sodium phosphate, pH 7.5, 300 mM NaCl, 150 mM imidazole.
Shipping	Dry ice

GENE INFORMATION

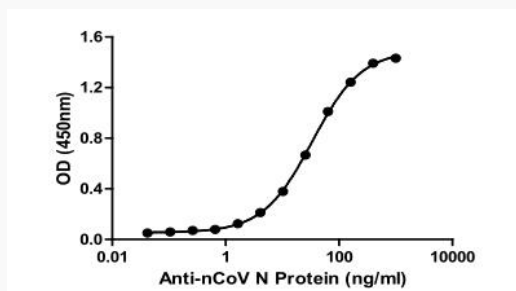
Gene Name	N nucleocapsid phosphoprotein [Severe acute respiratory syndrome coronavirus 2]
Official Symbol	N
Synonyms	N; nucleocapsid phosphoprotein; nucleocapsid phosphoprotein; ORF9; structural protein
Gene ID	43740575
mRNA Refseq	MN908947
Protein Refseq	YP_009724397

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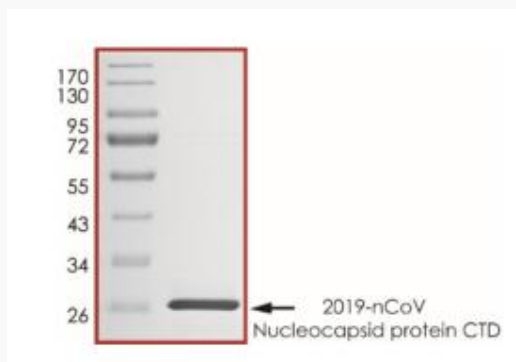
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Activity



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

Purity



The purity was determined to be >90 % by densitometry.