

Recombinant COVID-19 Nucleocapsid protein, His-tagged

Cat. No. Nucleocapsid-82V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant COVID-19 Nucleocapsid protein (Met1-Ala419) was fused to His-tag at the C-terminus and expressed in HEK293.
Species	Sars-CoV-2
Source	HEK293
ProteinLength	Met1-Ala419
Description	Nucleocapsid protein is a most abundant protein of coronavirus. Nucleocapsid protein is a highly immunogenic phosphoprotein also implicated in viral genome replication and in modulating cell signaling pathways. While screening for ADP-ribosylated proteins during coronavirus (CoV) infection, we identified as the viral nucleocapsid (N) protein. Novel post-translation modification of the CoV N protein that may play a regulatory role for this important structural protein. The array of diverse functional activities accommodated in the hantaviral N protein goes far beyond to be a static structural protein and makes it an interesting target in the development of antiviral therapeutics. Because of the conservation of N protein sequence and its strong immunogenicity, the N protein of coronavirus is chosen as a diagnostic tool.
Predicted N Terminal	Met1
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 47.3 kDa. The protein migrates as 60-65 kDa

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	under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

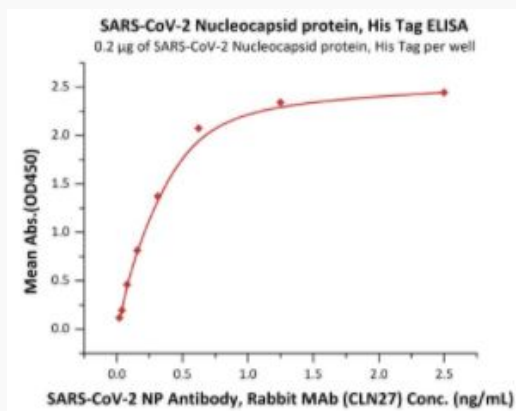
Gene Name	N
Official Symbol	N
Synonyms	GU280_gp10
Gene ID	43740575
Protein Refseq	YP_009724397.2
UniProt ID	P0DTC9

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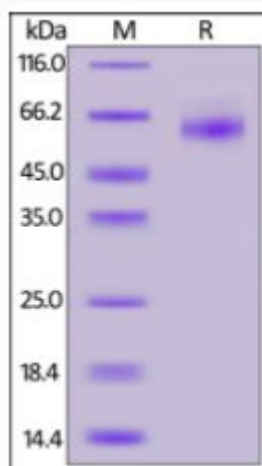
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Bioactivity-ELISA of Nucleocapsid-82V



Immobilized COVID-19 Nucleocapsid protein, His Tag at 2 µg/mL (100 µL/well) can bind COVID-19 NP Antibody, Rabbit MAb with a linear range of 0.02-0.6 ng/mL (QC tested).

SDS-PAGE of Nucleocapsid-82V



COVID-19 Nucleocapsid protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.