

Datasheet for ABIN6952454

SARS-CoV-2 Nucleocapsid Protein (SARS-CoV-2 N) (His tag)**2** Images**5** Publications[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Nucleocapsid (SARS-CoV-2 N)
Origin:	SARS Coronavirus-2 (SARS-CoV-2)
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SARS-CoV-2 Nucleocapsid protein is labelled with His tag.

Product Details

Sequence:	AA 1-419
Characteristics:	2019-nCoV (COVID-19) Nucleocapsid protein, His Tag (NUN-C5227) is expressed from human 293 cells (HEK293). It contains AA Met 1 - Ala 419 (Accession # YP_009724397.2). This protein carries a polyhistidine tag at the C-terminus.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	SARS-CoV-2 Nucleocapsid (SARS-CoV-2 N)
Alternative Name:	SARS-CoV-2 Nucleocapsid Protein (SARS-CoV-2 N Products)
Target Type:	Viral Protein
Background:	Nucleocapsid (N) protein is the most abundant protein found in coronavirus. CoV N protein is a highly immunogenic phosphoprotein important for viral genome replication and modulation of

Target Details

cell signaling pathways. It was first identified by a research team while they were screening for ADP-ribosylated proteins during coronavirus (CoV) infection (Grunewald M. E., et al. 2017, Virology, 517: 62-68). The array of diverse functional activities accommodated in N protein makes it more than a structural protein but also an interesting target in the development of antiviral therapeutics. Because of the conservation of N protein sequence and its strong immunogenicity, N protein of coronavirus is chosen as a diagnostic tool.

Molecular Weight:	47.3 kDa
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Application Details

Application Notes:	The protein has a calculated MW of 47.3 kDa. The protein migrates as 60-65 kDa under reducing (R) condition due to glycosylation.
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Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Buffer:	PBS, pH 7.4
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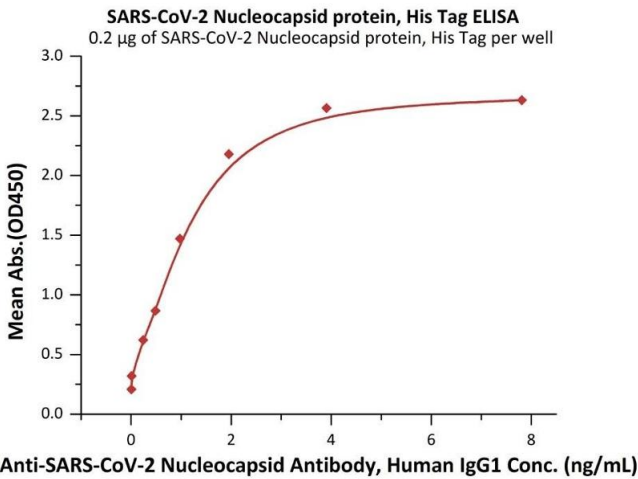
Handling Advice:	Please avoid repeated freeze-thaw cycles.
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Storage:	-20 °C, -80 °C
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Storage Comment:	For long term storage, the product should be stored at lyophilized state at -20°C or lower. This product is stable after storage at: -20°C to -70°C for 12 months in lyophilized state, -70°C for 3 months under sterile conditions after reconstitution.
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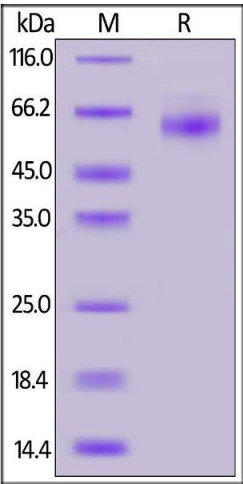
Publications

Product cited in:	Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)
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ELISA

Image 1. Immobilized SARS-CoV-2 Nucleocapsid protein, His Tag (ABIN6952454,ABIN6952460) at 2 µg/mL (100 µ L/well) can bind A-CoV-2 Nucleocapsid Antibody, Human IgG1 with a linear range of 0.5-2 ng/mL (QC tested).



SDS-PAGE

Image 2. 2019-nCoV (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%.