

Datasheet for ABIN6971314

SARS-CoV-2 Nucleocapsid Protein (SARS-CoV-2 N) (D3L, G204R, R203K, S235F) (His tag)[Go to Product page](#)**2** Images

Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Nucleocapsid (SARS-CoV-2 N)
Protein Characteristics:	D3L, G204R, R203K, S235F
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

Purpose:	SARS-CoV-2 Nucleocapsid protein (D3L, S235F), His Tag
Sequence:	AA 1-419
Characteristics:	SARS-CoV-2 Nucleocapsid protein (D3L, S235F), His Tag is expressed from human 293 cells (HEK293). It contains AA Met 1 - Ala 419 (D3L, S235F) (Accession # QH062115.1(D3L, S235F). D3L/ S235F were identified in the SARS-CoV-2 variant (known as 20B/501Y.V1, VOC 202012/01, or B.1.1.7 lineage) which emerged in the United Kindom.
Purity:	>90 % 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 (SARS-CoV-2 N Products)

Target Details

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 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:	47.4 kDa

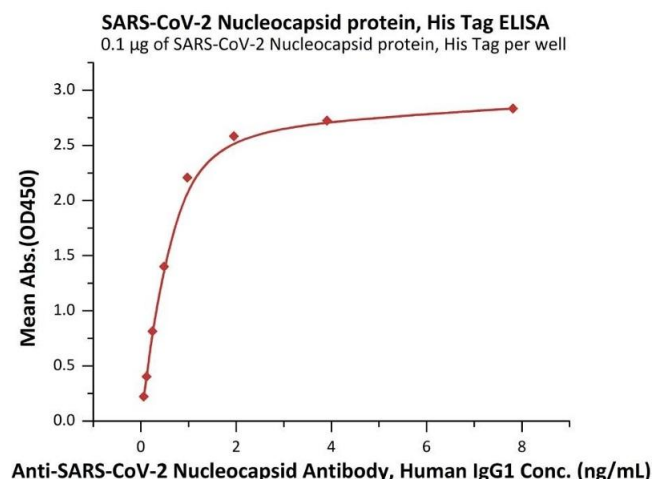
Application Details

Restrictions:	For Research Use only
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Handling

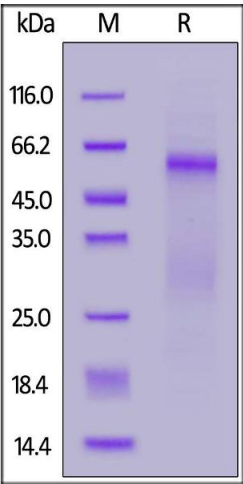
Format:	Lyophilized
Buffer:	PBS, pH 7.4
Storage:	-20 °C, -80 °C
Storage Comment:	For long term storage, the product should be stored at lyophilized state at -20°C or lower.
Expiry Date:	12 months

Images



ELISA

Image 1. Immobilized SARS-CoV-2 Nucleocapsid protein, His Tag (ABIN6971314, ABIN6971315) at 1 µg/mL (100 µL/well) can bind A-CoV-2 Nucleocapsid Antibody, Human IgG1 with a linear range of 0.06-1 ng/mL (QC tested).



SDS-PAGE

Image 2. SARS-CoV-2 Nucleocapsid protein, His Tag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .