

Datasheet for ABIN6992416  
**SARS-CoV-2 Nucleocapsid Protein (SARS-CoV-2 N) (T205I)**  
**(His tag)**



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2 Images

Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Nucleocapsid (SARS-CoV-2 N)
Protein Characteristics:	T205I
Origin:	SARS Coronavirus-2 (SARS-CoV-2)
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SARS-CoV-2 Nucleocapsid protein is labelled with His tag.

Product Details

Purpose:	SARS-CoV-2 Nucleocapsid protein (T205I), His Tag
Sequence:	AA 1-419
Characteristics:	SARS-CoV-2 Nucleocapsid protein (T205I), His Tag is expressed from human 293 cells (HEK293). It contains AA Met 1 - Ala 419 (Accession # QH062115.1 (T205I)). The nucleocapsid protein is consisted of the N-terminal RNA-binding domain (NTD) and the C-terminal dimerization domain (CTD), divided by a central serine/arginine-rich (SR)-linker responsible for phosphorylation. The mutation T205I was identified on the nucleocapsid protein of SARS-CoV-2 variants with high frequency in B.1.351 variants circulating in South Africa.
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 protein ( <a href="#">SARS-CoV-2 N Products</a> )
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:	47.3 kDa

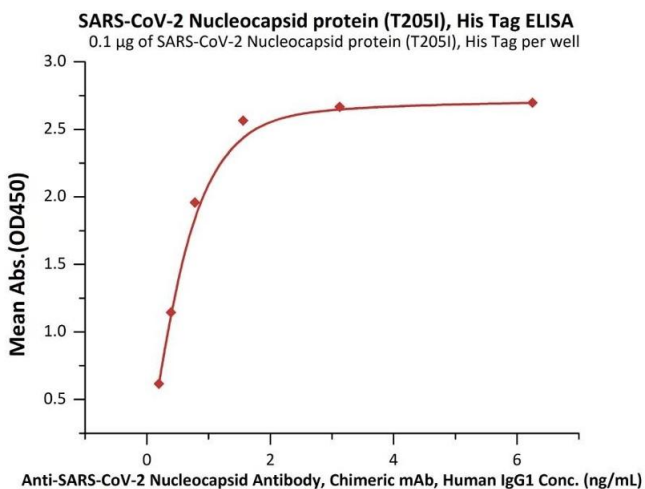
## Application Details

Restrictions:	For Research Use only
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## Handling

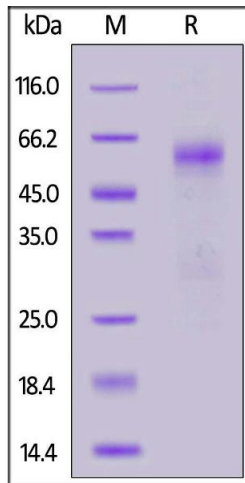
Format:	Lyophilized
Buffer:	PBS, 0.5 M Arginine, pH 7.4
Storage:	-20 °C

## Images



### ELISA

**Image 1.** Immobilized SARS-CoV-2 Nucleocapsid protein (T205I), His Tag (ABIN6992416) at 1 µg/mL (100 µL/well) can bind A-CoV-2 Nucleocapsid Antibody, Chimeric mAb, Human IgG1 with a linear range of 0.2-1 ng/mL (QC tested).



### SDS-PAGE

**Image 2.** SARS-CoV-2 Nucleocapsid protein (T205I), His Tag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .