Datasheet for ABIN6952453

# SARS-CoV-2 Nucleocapsid Protein (SARS-CoV-2 N) (His tag)

2 Images

Go to Product page

## Overview

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

## Product Details

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| Sequence: | AA 1-419 |
| Characteristics: | 2019-nCoV (COVID-19) Nucleocapsid protein, His Tag is expressed from E.coli cells. It contains AA Met 1 - Ala 419 (Accession # QHO62115.1). Predicted N-terminus: Met This protein carries a polyhistidine tag at the N-terminus. |
| Purity: | >90 % as determined by SDS-PAGE. |
| Endotoxin Level: | Less than 1.0 EU per µg by the LAL method. |

## Target Details

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| 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

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| | 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: | 49.4 kDa |

## Application Details

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| Application Notes: | The protein has a calculated MW of 49.4 kDa. The protein migrates as 53-55 kDa under reducing (R) condition . |
| Restrictions: | For Research Use only |

## Handling

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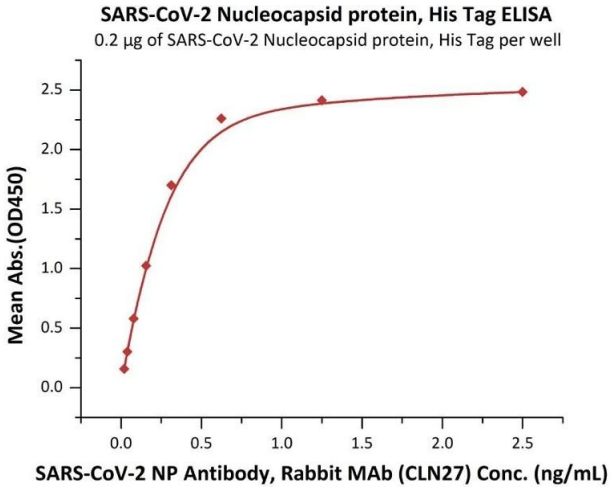
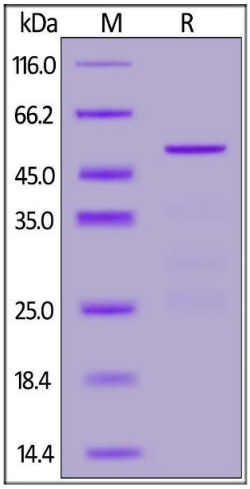
| Format: | Lyophilized |
| Buffer: | 50 mM Tris, 150 mM NaCl, Arginine, pH 7.5 |
| Handling Advice: | Please avoid repeated freeze-thaw cycles. |
| Storage: | -20 °C,-80 °C |
| Storage Comment: | For long term storage, the product should be stored at lyophilized state at -20°C or lower. This product is stable aftr storage at: -20°C to -70°C for 12 months in lyophilized state, -70°C for 3 months under sterile conditions after reconstitution. |




## ELISA

**Image 1.** Immobilized SARS-CoV-2 Nucleocapsid protein, His Tag (ABIN6952453,ABIN6952461) at 2 µg/mL (100 µ L/well) can bind SARS-CoV-2 NP Antibody, Rabbit MAb (CLN27) with a linear range of 0.02-0.3 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 90%.