Datasheet for ABIN6952454

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

### 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

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

The protein has a calculated MW of 47.3 kDa. The protein migrates as 60-65 kDa under reducing (R) condition due to glycosylation.

Restrictions: For Research Use only

Handling

Format: Lyophilized
Buffer: PBS, pH 7.4
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 after storage at: -20°C to -70°C for 12 months in lyophilized state, -70°C for 3 months under sterile conditions after reconstitution.

Publications

**ELISA**

**Image 1.** Immobilized SARS-CoV-2 Nucleocapsid protein, His Tag (ABIN6952454,ABIN6952460) at 2 μg/mL (100 μL/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%.