

# SARS-CoV-2 Nucleocapsid Protein, Tag Free, E. coli

Catalog Number LDG004PVE

Package 100 μg / Customized package

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## **Specifications**

**Species of Origin** 

SARS-CoV-2

**Affinity Tag** 

Tag Free

**Purity** 

>95% as determined by SDS-PAGE analysis.

**Form** 

Lyophilized

**Expression System** 

Escherichia coli

**Storage Buffer** 

Lyophilized from a 0.2  $\mu m$  filtered solution of PBS containing 10 mM potassium carbonate, pH 7.4.

Molecular weight

The protein has a calculated MW of 45.62 kDa. The protein migrates about 48 kDa under reducing condition (SDS-PAGE analysis).

## Background



### **Background**

SARS-CoV-2 is a kind of coronavirus which full name is severe acute respiratory syndrome coronavirus 2. SARS-CoV-2 is contagious that causes the respiratory diseases and lung diseases which make difficulty breathing.

SARS-CoV-2 do the spillover event in 2019 because it has genetic diversity. SARS-CoV-2 is composed by four subunits (spike, envelope, membrane and nucleocapsid proteins). Its RNA genome is encapsulated with nucleocapsid protein. The viral envelope is comprised of spike, envelope and membrane protein.

SARS-CoV-2 has high affinity to ACE2, which is highly expression in intestines, kidney, and heart.

#### **Synonyms**

Nucleoprotein, Nucleocapsid protein, N, NC Protein N

#### **Uniprot ID**

#P0DTC9

#### **Sequence Note**

Met1-Ala419

### Instruction

### Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile  $H_2O$  to a concentration not less than 200  $\mu$ g/mL and incubate the stock solution for at least 20 min to ensure sufficient redissolved.

## **Shipping**

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.



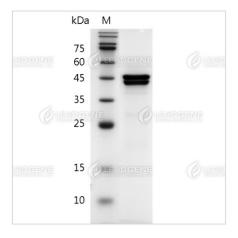
## **Stability & Storage**

This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

## **Image**



SDS-PAGE analysis of recombinant SARS-CoV-2 nucleocapsid protein.

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