

# Recombinant SARS-CoV-2 Nucleocapsid Protein

Catalog No.: RP01264LQ

Recombinant

3 Publications

## Sequence Information

Species	Gene ID	Swiss Prot
SARS-CoV-2	43740575	

### Tags

N-His

### Synonyms

Nucleoprotein

## Product Information

### Source

*E. coli*

### Purification

> 95% by SDS-PAGE; > 95% by HPLC.

### Endotoxin

< 1.0 EU/μg of the protein by LAL method.

### Formulation

Supplied as a 0.22 μm filtered solution in 20mM Tris, 500mM NaCl, 0.1mM EDTA, 10% glycerol, pH8.0. Contact us for customized product form or formulation.

### Reconstitution

## Background

## Basic Information

### Description

Recombinant SARS-CoV-2(2019-nCoV) Nucleocapsid Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Met1-Ala419) of SARS-CoV-2(2019-nCoV) Nucleocapsid (Accession #QHD43423.2) fused with an 6xHis tag at the N-terminus.

### Bio-Activity

1. Measured by its binding ability in a functional ELISA. Immobilized Recombinant SARS-CoV-2 Nucleocapsid at 2 μg/mL (100 μL/well) can bind Anti-Nucleocapsid antibody with a linear range of 0.12-1.64 ng/mL. 2. Measured by its binding ability in a functional ELISA. Immobilized Recombinant SARS-CoV-2 envelope Protein at 2 μg/mL (100 μL/well) can bind Recombinant SARS-CoV-2 Nucleocapsid protein, the EC<sub>50</sub> of Recombinant SARS-CoV-2 Nucleocapsid protein is 41.10 ng/mL.

### Storage

This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze/thaw cycles.

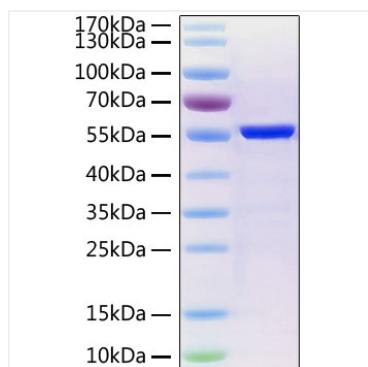
## Contact

☎ | 400-999-6126

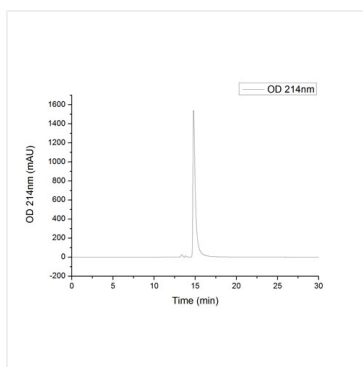
✉ | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

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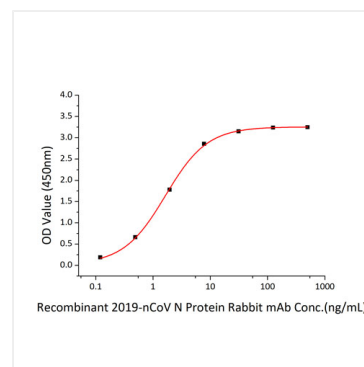
## Validation Data



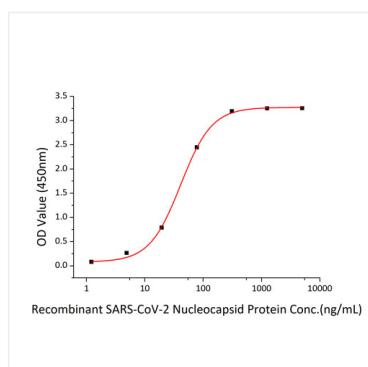
Recombinant SARS-CoV-2 Nucleocapsid Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 55 kDa.



The purity of SARS-COV-2 Nucleocapsid Protein with His tag (Cat.RP01264) was greater than 95% as determined by SEC-HPLC.



Immobilized Recombinant SARS-COV-2 Nucleocapsid at 2 $\mu$ g/mL (100  $\mu$ L/well) can bind Anti-Nucleocapsid antibody with a linear range of 0.12-1.64 ng/mL.



Immobilized Recombinant SARS-CoV-2 envelope Protein at 2 $\mu$ g/mL (100  $\mu$ L/well) can bind Recombinant SARS-CoV-2 Nucleocapsid protein, the EC<sub>50</sub> of Recombinant SARS-CoV-2 Nucleocapsid protein is 41.10 ng/mL.