

## Recombinant SARS-COV-2 Nucleocapsid Protein with His tag

**Catalog No:** CARP01264

**Category:** Recombinant Protein

**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 6×His tag at the N-terminus

**Bio-Activity:** Measured by its binding ability in a functional ELISA. Immobilized Recombinant SARS-COV-2 Nucleocapsid at 2µg/mL (100 µL/well) can bind Anti-Nucleocapsid antibody with a linear range of 0.12-1.64 ng/mL. Measured by its binding ability in a functional ELISA. Immobilized Recombinant SARSCoV-2 envelope Protein at 2µg/mL (100 µL/well) can bind Recombinant SARS-CoV-2 Nucleocapsid protein, the EC50 of Recombinant SARS-CoV-2 Nucleocapsid protein is 41.10 ng/mL.

### Sequence Information

**Species:** SARS-COV-2

**Gene ID:** 43740575

**Tags:** 6×His, Avi tag at the N-terminus

### Product Information

**Synonyms:** Nucleocapsid protein; NP; Nucleoprotein; cov np; Protein N; COVID-19

**Source:** E. coli

**Purity:** > 95% by SDS-PAGE; > 95% by HPLC.

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

**Formulation:** Lyophilized from a 0.22 µm filtered solution of 20mM Tris, 500mM NaCl, 0.1mM EDTA, 10% glycerol, pH8.0 or 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

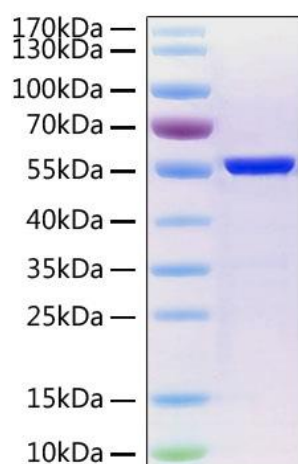
**Reconstitution:** For lyophilized protein : Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

**Storage:** Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. or 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.

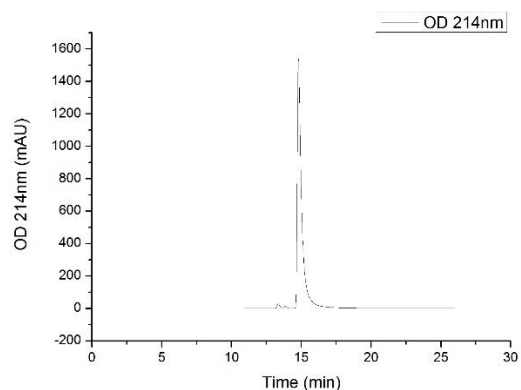
**Avoid repeated freeze/thaw cycles.**

### Background

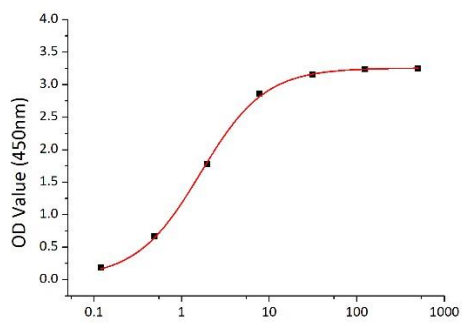
## Validated Data



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

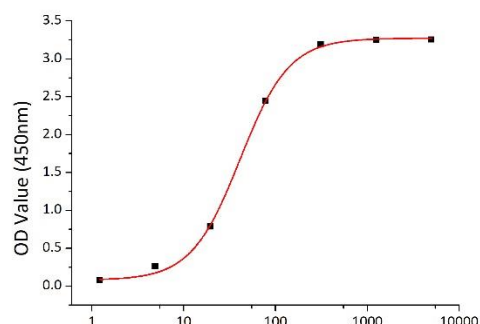


The purity of SARS-COV-2 Nucleocapsid Protein with His tag (Cat.CARP01264) was greater than 95% as determined by SEC-HPLC.



Recombinant 2019-nCoV N Protein Rabbit mAb Conc.(ng/mL)

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.



Recombinant SARS-CoV-2 Nucleocapsid Protein Conc.(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.