Recombinant SARS-CoV-2 Nucleocapsid Protein

Catalog No.: RP01264LQ

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Sequence Information

Species
SARS-CoV-2

Gene ID
43740575

Swiss Prot

Tags
C-6*His

Synonyms
Nucleoprotein

Product Information

Source
E. coli

Purification
≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC.

Calculated MW
46.48 kDa

Observed MW
55 kDa

Endotoxin
< 1 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 6×His tag at the C-terminus.

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_{50} of Recombinant SARS-CoV-2 Nucleocapsid protein is 41.10 ng/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃

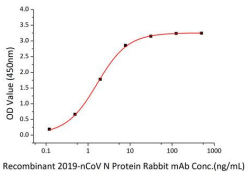
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

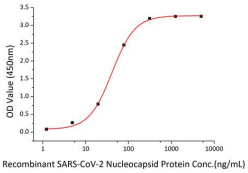
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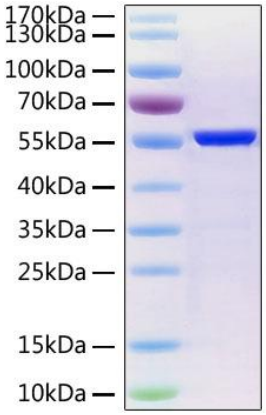
Validation Data



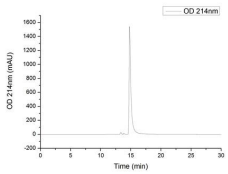
Immobilized Recombinant SARS-COV-2 Nucleocapsid at 2μg/mL (100 μL/well) can bind Anti-Nucleocapsid antibody with a linear range of 0.12-1.64 ng/mL.



Immobilized Recombinant SARS-CoV-2 envelope Protein at 2μg/mL (100 μL/well) can bind Recombinant SARS-CoV-2 Nucleocapsid protein, the EC_{50} of Recombinant SARS-CoV-2 Nucleocapsid protein is 41.10 ng/mL.



Recombinant SARS-CoV-2 Nucleocapsid Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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

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