

RP01264LQ

Leader in Biomolecular Solutions for Life Science



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 6×His 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 EC₅₀ of Recombinant SARS-CoV-2 Nucleocapsid protein is 41.10 ng/mL.

Storage

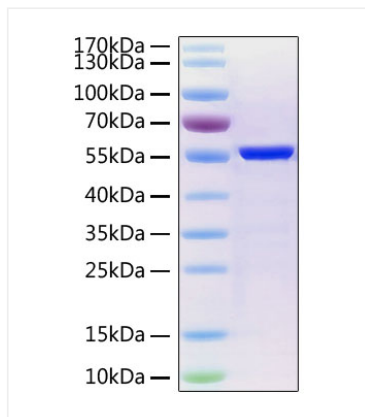
This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze/thaw cycles.

Contact

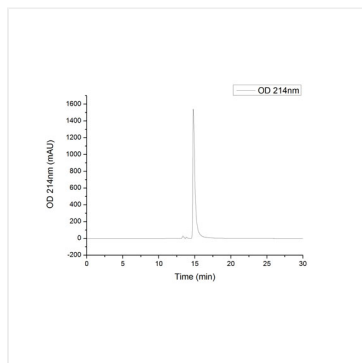


www.abclonal.com

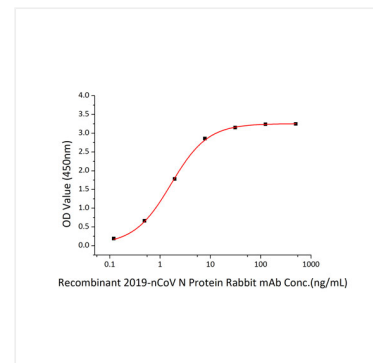
Validation Data



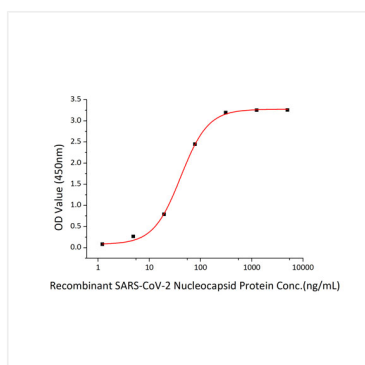
Recombinant SARS-CoV-2 Nucleocapsid Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 55 kDa.



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 μ g/mL (100 μ 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 μ g/mL (100 μ L/well) can bind Recombinant SARS-CoV-2 Nucleocapsid protein, the EC_{50} of Recombinant SARS-CoV-2 Nucleocapsid protein is 41.10 ng/mL.