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Recombinant SARS-CoV-2 Nucleocapsid Protein with His tag

Catalog No.: RP01264 Recombinant 1 Publications

Sequence Information

Species SARS-CoV-2

Gene ID 43740575

Swiss Prot

Tags
N-6×His

Synonyms
Nucleoprotein

Product Information

Source
E. coli

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

Calculated MW
49.4kDa

Observed MW

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
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 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.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

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