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N Recombinant SARS-CoV-2 (2019-nCoV) Nucleocapsid Protein (His Tag)

Catalog No. CSI99002 Quantity: 100 µg

Alternate Names: Nucleoprotein, Protein N, Nucleocapsid Protein, NC

Description: Coronaviruses are enveloped viruses with a positive-sense RNA genome and with a

nucleocapsid of helical symmetry. Coronavirus nucleoproteins localize to the cytoplasm and the nucleolus, a subnuclear structure, in both virus-infected primary cells and in cells transfected with plasmids that express N protein. Coronavirus N protein is required for coronavirus RNA synthesis, and has RNA chaperone activity that may be involved in template switch. Nucleocapsid protein is a most abundant protein of coronavirus. During virion assembly, N protein binds to viral RNA and leads to formation of the helical nucleocapsid. Nucleocapsid protein is a highly immunogenic phosphoprotein also

implicated in viral genome replication and in modulating cell signaling pathways. Because of the conservation of N protein sequence and its strong immunogenicity, the N protein of

coronavirus is chosen as a diagnostic tool.

UniProt ID: P0DTC9

Accession Number: YP 009724397.2

Protein Construction: A DNA sequence encoding the SARS-CoV-2 (2019-nCoV) Nucleocapsid Protein (Met1-

Ala419(335Gly/Ala)) was expressed with a polyhistidine tag at the N-terminus.

Source: E. coli

Formulation: Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants

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before lyophilization.

Molecular Weight: The recombinant SARS-CoV-2 (2019-nCoV) Nucleocapsid Protein (His tag) consists of

426 amino acids with a predicted molecular mass of 46.61 kDa.

Purity: > 90 % as determined by SDS-PAGE.

Biological Activity: Testing in progress

Predicted N-terminal: Met

Reconstitution: Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1

mg/mL and gently pipette the solution up and down the sides of the vial. **DO NOT VORTEX**. Allow several minutes for complete reconstitution.

Storage & Stability: Stable for up to 1 year from date of receipt at -20°C to -80°C

After reconstitution, store working aliquots at -20°C to -80°C.

Avoid repeated freeze-thaw cycles.

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