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# **Recombinant SARS-CoV-2 Nucleocapsid Protein (His Tag)**

Catalog No. PKSR030497

Note: Centrifuge before opening to ensure complete recovery of vial contents.

### **Description**

Synonyms 2019-nCoV coronavirus NP Protein;2019-nCoV np Protein;2019-nCoV novel

coronavirus Nucleoprotein Protein

Species SARS-CoV-2

**Expression Host** Baculovirus-Insect Cells

 Sequence
 Met1-Ala419

 Accession
 YP\_009724397.2

Calculated Molecular Weight 47.1 kDa
Tag C-His

## **Properties**

**Purity** > 90 % as determined by reducing SDS-PAGE.

**Endotoxin** < 1.0 EU per µg of the protein as determined by the LAL method.

**Storage** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation** LyopHilized from sterile 20 mM Tris, 500 mM NaCl, pH8.0, 10% glycerol.

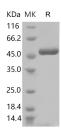
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

**Reconstitution** Please refer to the printed manual for detailed information.

#### Data



> 90 % as determined by reducing SDS-PAGE.

## **Background**

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

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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.

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