

# Recombinant SARS-CoV-2 Nucleoprotein / NP Protein (His Tag)



Catalog Number:PKSR030506

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

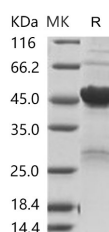
## Description

|                                    |   |
|------------------------------------|---|
| <b>Synonyms</b>                    | 2019-nCoV coronavirus NP Protein;2019-nCoV np Protein;2019-nCoV novel coronavirus Nucleoprotein Protein |
| <b>Species</b>                     | SARS-CoV-2  |
| <b>Expression Host</b>             | Baculovirus-Insect Cells  |
| <b>Sequence</b>                    | Met1-Ala422   |
| <b>Accession</b>                   | NP_828858.1   |
| <b>Calculated Molecular Weight</b> | 47.5 kDa  |
| <b>Observed molecular weight</b>   | 47.1 kDa  |
| <b>Tag</b>                         | C-His   |

## Properties

|                       |   |
|-----------------------|---|
| <b>Purity</b>         | > 80 % as determined by reducing SDS-PAGE.  |
| <b>Endotoxin</b>      | < 1.0 EU per µg of the protein as determined by the LAL method.   |
| <b>Storage</b>        | 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.                       |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.   |
| <b>Formulation</b>    | Lyophilized from sterile 20 mM Tris, 500 mM NaCl, 10 % glycerol, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.  |

## Data



> 80 % 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 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

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and its strong immunogenicity, the N protein of coronavirus is chosen as a diagnostic tool.

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