SARS-CoV-2 (2019-nCoV) Nucleocapsid Protein (His tag)

Catalog No: #AP89519

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Description

Product Name	SARS-CoV-2 (2019-nCoV) Nucleocapsid Protein (His tag)
Brief Description	Recombinant Proteins
Purification	> 90 % as determined by SDS-PAGE.
Immunogen Description	A DNA sequence encoding the NCP-CoV(2019-nCoV) Nucleocapsid Protein was expressed with a polyhistidine tag at the C-terminus.
Other Names	coronavirus NP Protein, 2019-nCoV; coronavirus Nucleocapsid Protein, 2019-nCoV; coronavirus Nucleoprotein Protein, 2019-nCoV; cov np Protein, 2019-nCoV; ncov NP Protein, 2019-nCoV; NCP-CoV Nucleocapsid Protein, 2019-nCoV; novel coronavirus NP Protein, 2019-nCoV; novel coronavirus Nucleocapsid Protein, 2019-nCoV; novel coronavirus Nucleoprotein Protein, 2019-nCoV; np Protein, 2019-nCoV; nucleocapsid Protein, 2019-nCoV; Nucleoprotein Protein, 2019-nCoV
Calculated MW	47.08 kDa.
Formulation	Lyophilized from sterile 20mM Tris, 500mM NaCl, pH8.0, 10%glycerol Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°CStore it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Product Description

Predicting N End: Met
Shipping Method: In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.
Reconstitution: A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.

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

References

1.Van Boheemen S, et al. (2012), MBio. 3(6):e00473-12.

Note: This product is for in vitro research use only