Recombinant MERS-CoV Nucleoprotein / NP protein (His Tag)

Catalog No. PKSV030235

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

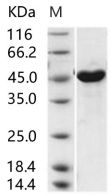
Description

Synonyms	coronavirus NP Protein;MERS-CoV;coronavirus Nucleocapsid Protein;MERS-CoV;coronavirus Nucleoprotein Protein;MERS-CoV;cov np Protein;MERS-CoV;ncov NP Protein;MERS-CoV;novel coronavirus Nucleoprotein Protein;MERS-CoV;NP Protein;MERS-CoV;Nucleocapsid Protein;MERS-CoV;Nucleoprotein Protein;MERS-CoV
Species	MERS-CoV
Expression Host	Baculovirus-Insect Cells
Sequence	Met1-Asp413
Accession	AFS88943.1
Calculated Molecular Weight	46.5 kDa
Tag	C-His
Bioactivity	Not validated for activity

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℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile 20mM Tris, 500mM NaCl, 10% glycerol, pH 8.0. 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 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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