

Recombinant COVID-19 (2019 novel coronavirus) Nucleocapsid protein, His-tagged

Cat. No. N-196V Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant COVID-19 (2019 novel coronavirus) Nucleocapsid protein was fused to His-tag at C-terminus and expressed in Baculovirus-Insect cells.

Species Sars-CoV-2

Source Insect Cells

ProteinLength 430

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.

Predicted N Terminal Met

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Form	Lyophilized from sterile 20mM Tris, 300mM NaCl, 10% glycerol, pH 8.0. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant COVID-19 Nucleocapsid Protein (His tag) consists of 430 amino acids and predicts a molecular mass of 47.08 kDa.
Endotoxin	<1.0 EU per µg protein as determined by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	N
Official Symbol	N

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Synonyms	GU280_gp10
Gene ID	43740575
Protein Refseq	YP_009724397.2

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