

SARS-CoV-2 (2019-nCoV) Nucleocapsid Recombinant Protein | NP-CoV recombinant protein

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

CATALOG #
AAA258074

HOST
Baculovirus-Insect Cells

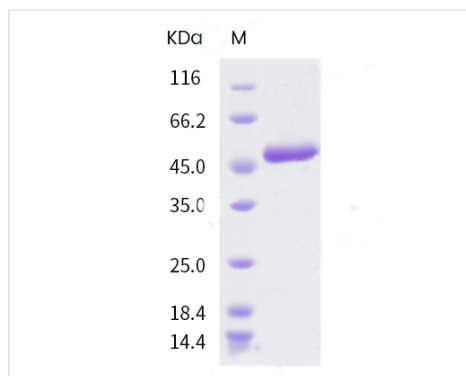
PRODUCT SYNONYMS

SARS-CoV-2 (2019-nCoV) Nucleocapsid; SARS-CoV-2 (2019-nCoV) Nucleocapsid-His recombinant Protein; NP-CoV recombinant protein

PRODUCT SPECIFICATIONS

Host	Baculovirus-Insect Cells
Purity/Purification	>90% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 8.0, 10% glycerol, 5% Trehalose, 5% Mannitol, 0.01% Tween-80
Sequence	Met1
Species	SARS-CoV-2
Endotoxin	<1.0EU per ug protein as determined by the LAL method.
Predicted N Terminal	Met 1
Tag	C-His
Protein Construction	A DNA sequence encoding the SARS-CoV-2 (2019-nCoV) Nucleocapsid Protein (YP_009724397.2(335Gly/Ala))(Met1-Ala419) was expressed with a polyhistidine tag at the C-terminus.
Reconstitution	Reconstituted with sterile deionized water to 0.25 mg/ml
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for NP-CoV recombinant protein	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. The coronavirus N protein is required for coronavirus RNA synthesis and has RNA chaperone activity that may be involved in template switch. Nucleocapsid protein is the most abundant protein of coronavirus. During virion assembly, N protein binds to viral RNA and leads to the 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 the N protein sequence and its strong immunogenicity, the N protein of coronavirus is chosen as a test tool.
References	1.Van Boheemen S, et al. (2012), MBio. 3(6):e00473-12. Bisht H. et al., 2004, Proc Natl Acad Sci. 101 (17): 6641-6. Li W. et al., 2005, Science. 309 (5742): 1864-8.

NCBI AND UNIPROT INFORMATION

Molecular Weight	Predicted: 47.09 kDa
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/sars-cov-2-2019-ncov-nucleocapsid-recombinant-protein-baculovirus-insect-cells/258074>