

COVID 19 Nucleocapsid CTD Coronavirus Recombinant Protein | COVID-19 recombinant protein

2019-nCoV Nucleocapsid protein CTD

CATALOG # AAA73317	HOST E Coli
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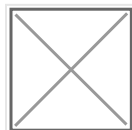
PRODUCT SYNONYMS

COVID 19 Nucleocapsid CTD Coronavirus; 2019-nCoV Nucleocapsid protein CTD; 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; Nucleocapsid CTD; Nucleoprotein; N-protein; Nucleocapsid protein; NC; Protein N; COVID-19 recombinant protein

PRODUCT SPECIFICATIONS

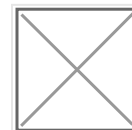
Host	E Coli
Form/Format	Recombinant protein stored in 50mM sodium phosphate, pH7.5, 300mM NaCl, 150mM imidazole.
Tag	HIS
Species	SARS-CoV-2
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE

Purity: The purity was determined to be >90% by densitometry.



Activity

Activity: Binding of Anti-2019-nCoV N-Protein Antibody (C19NP-60H) to immobilized 2019-nCoV N-Protein CTD (C19ND-G241H) determined by ELISA using Goat anti-human Fc-HRP.

ADDITIONAL INFORMATION

Related Product Information for COVID-19 recombinant protein	Recombinant 2019-nCoV Nucleocapsid (N) Protein C-terminal domain (237-419) was expressed in E Coli cells with a C-terminal His tag. The gene accession number is QHD43423. CoV N protein is an RNA-binding protein primarily involved in binding to the viral RNA genome during packaging of viral RNA into a helical ribonucleoproteins or nucleocapsid structure (1). In addition, N-protein regulates viral RNA synthesis during replication/transcription and modulates host-pathogen interactions, such as such as actin reorganization, host cell cycle progression, and apoptosis (2). N protein is abundantly expressed during infection and antibodies against N-protein have been detected in confirmed cases of Covid-19. Therefore, N-protein is a potent antigen that provides basis for future vaccine and test kit development (3).
Product Categories/Family for COVID-19 recombinant protein	COVID-19 Proteins; Acute Respiratory Distress Syndrome; Cardiovascular Disease; Cell Cycle; Cellular Stress; COVID19; Gastrointestinal Diseases; Infectious Diseases; Inflammation; Lung Diseases; Metabolic Disorder; Neurobiology; severe acute respiratory s

References

1. McBride R, et al: The coronavirus nucleocapsid is a multifunctional protein. *Viruses*. 2014, 6:2991-3018.
2. Surjit M, et al: The nucleocapsid protein of severe acute respiratory syndrome-coronavirus inhibits the activity of cyclin-cyclin-dependent kinase complex and blocks S phase progression in mammalian cells. *J Biol Chem*. 2006, 281:10669-10681.
3. Zeng W, et al: Biochemical characterization of SARS-CoV-2 nucleocapsid protein. *Biochem Biophys Res Commun*. 2020, 527(3):618-623.

NCBI AND UNIPROT INFORMATION

Molecular Weight

approx. MW: 26kDa

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/covid-19-nucleocapsid-ctd-coronavirus-recombinant-protein-e-coli/73317>