

COVID 19 Nucleocapsid (NP) Coronavirus Recombinant Protein | COVID-19 recombinant protein

2019-nCoV Nucleocapsid (N) Protein

CATALOG # AAA73167	HOST E Coli
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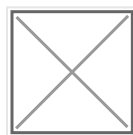
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

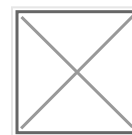
Host	E Coli
Form/Format	10mM PBS, pH8.0, 50mM NaCl, 0.05% Na3N
Species	SARS-CoV-2
Tag	HIS
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



Purity Data

The purity was determined to be >90% by densitometry. Approx. MW 52kDa



Specific Activity

Binding of Anti-2019-nCoV N-Protein Antibody to immobilized 2019-nCoV Nucleocapsid (N) Protein (AAA73167) determined by ELISA using Goat anti-human Fc-HRP.

ADDITIONAL INFORMATION

Related Product Information for COVID-19 recombinant protein	Recombinant full-length 2019-nCoV Nucleocapsid (N) Protein was expressed in E Coli cells with a C-terminal His tag. Overview: 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	Proteins; COVID-19 Proteins

References

1. McBride R, et al: The Corona virus nucleocapsid is a multifunctional protein. *Viruses*. 2014, 6:2991-3018.
2. Surjit M, et al: The nucleocapsid protein of severe acute respiratory syndrome-Corona virus 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

52kDa

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-np-coronavirus-recombinant-protein-e-coli/73167>