BOSTER BIOLOGICAL TECHNOLOGY
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# SARS-CoV-2 (COVID-19) NSP9 Protein, His Tag

**Catalog Number:** RCOV03

## Overview

| | |
|---|---|
| Product Name | SARS-CoV-2 (COVID-19) NSP9 Protein, His Tag |
| Description | SARS-CoV-2 (COVID-19) NSP9 Protein, His Tag is produced in E. coli and has a theoretical molecular weight of 13.2KD. This product is for research use only. Product is under validation for additional applications and indications. If you're interested, please contact support@bosterbio.com. |
| Size | 100ug/vial |
| Tag | |
| Form | Lyophilized |
| Source | E. coli |
| Formulation | Lyophilized from sterile 20mM PB, 150mM NaCl, PH 7.3-7.4, 10% glycerol and 4% trehalose |

## Storage

The product is shipped at ambient temperature. Upon receipt, store it immediately at -20˚C for 6 months under sterile conditions. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

## Purity

> 90%. Purification measurement method by SDS-PAGE quantitative densitometry by Coomassie® Blue Staining.
Method of purification: Nickel column affinity purification

## Amino Acid Sequence

6×His tag at C-terminal
Accession #: YP_009725305
NNELSPVALRQMSCAAGTTQTACTDDNALAYYNTTKGGRFVLALLSDLQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPKVKYLYFIKGLNNLNR
GMVLGSLAATVRLQ

## Background

Coronaviruses (CoV) are a family of large and enveloped positive-sense single-stranded RNA viruses that are classified into four genera, the alpha, beta, gamma, and delta coronaviruses. While gamma and delta coronaviruses mainly infect birds, alpha and beta coronaviruses are known to infect mammals and cause human respiratory illnesses such as the common cold, pneumonia, and severe diseases like SARS, MERS, and COVID-19. 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 the most abundant protein of coronavirus. During virion assembly, the N protein

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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 N protein sequence and its strong immunogenicity, the N protein of coronavirus is chosen as a diagnostic tool.

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## Usage

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For Research Use Only. Not for use in diagnostic procedures.