

## SARS-COV-2 Nucleocapsid Protein (His & Avi), Biotinylated

### General Information

Synonyms:	Nucleocapsid;NC;NP
Protein Construction:	Ser2-Ala419
Species:	SARS-CoV-2
Expression Host:	E. coli
Accession:	P0DTC9
Molecular Weight:	48.9 kDa (predicted). The protein migrates to 50-52 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 μm filtered solution in 50 mM Tris, 500 mM NaCl, 10% Glycerol (pH 7.5).

### Preparation and Storage

#### Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

Proteins are shipped with blue ice.

### Protein Background

Nucleocapsid protein (N) is the major viral structural component; its main function is to protect and encapsidate the viral RNA forming viral RNP complex. It is encoded by the S segment vRNA and is abundantly expressed in the cytoplasm of infected cells.

#### Reference

Longhi S. Nucleocapsid structure and function. *Curr Top Microbiol Immunol.* 2009;329:103-128. doi:10.1007/978-3-540-70523-9\_6

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481