

SARS-COV-2 Nucleocapsid Protein (His-Avi)

Cat. No.:	HY-P78276
Synonyms:	Nucleocapsid; NP; NC
Species:	Virus
Source:	E. coli
Accession:	QHD43423.2 (S2-A419)
Gene ID:	43740575
Molecular Weight:	Approximately 48.9 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris, 500 mM NaCl, 10% glycerol, pH 7.5.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	The SARS-CoV-2 Nucleocapsid Protein assumes a pivotal role in virion assembly, orchestrating the packaging of the positive-strand viral genome RNA into a helical ribonucleocapsid (RNP) and establishing crucial interactions with the viral genome and membrane protein M. Beyond its structural functions, this protein significantly contributes to the efficiency of subgenomic viral RNA transcription and overall viral replication. Notably, it exhibits an additional role in modulating host chemokine function, a mechanism that may favor viral replication and transmission. The Nucleocapsid Protein achieves this modulation by being secreted into the extracellular space, where it competes with host chemokines for binding to host glycosaminoglycans (GAG), thus potentially disrupting host defense mechanisms and supporting the viral life cycle.
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Caution: Product has not been fully validated for medical applications. For research use only.

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