

SARS-CoV-2 Nucleocapsid Protein (Omicron, B.1.1.529, His)

Cat. No.:	HY-P74443
Synonyms:	N Protein; Nucleocapsid
Species:	Virus
Source:	E. coli
Accession:	YP_009724397 (M1-A419)
Gene ID:	43740575
Molecular Weight:	Approximately 46.31 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 50 mM PB, 500mM NaCl, pH 7.4.
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	<p>Nucleoprotein/NP Protein is essential for viral replication and transcription. Nucleoprotein/NP Protein binds to viral RNA to form a ribonucleoprotein complex required for genome replication. Nucleoprotein/NP Protein induces strong antibody (Ab) and T cell responses, regulating innate and adaptive immunity^{[1][3]}.</p> <p>Nucleoprotein/NP Protein functions by secreting into the extracellular space, where it competes with host chemokines to bind to host glycosaminoglycans (GAGs)^[2].</p> <p>Nucleoprotein/NP Protein induces excessive inflammation by promoting the activation of the NLRP3 inflammasome, which plays a role in COVID-related lung injury^[4].</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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