

MERS-CoV Nucleoprotein/NP Protein (sf9, His)

Cat. No.:	HY-P74754
Synonyms:	MERS-CoV coronavirus NP Protein; MERS-CoV coronavirus Nucleocapsid Protein
Species:	Virus
Source:	Sf9 insect cells
Accession:	AFS88943.1 (M1-D413)
Gene ID:	14254601
Molecular Weight:	Approximately 46.51 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 20 mM Tris, 500 mM NaCl, 10% gly, pH 8.0.
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	MERS-CoV Nucleoprotein/NP is a phosphorylated basic protein and the second largest structural protein of MERS-CoV, containing 413 amino acid residues. The Nucleoprotein combines with the RNA genome to form a nucleocapsid, which is important in viral replication and assembly. Nucleoprotein binds to the SPRY domain of the tripartite motif protein 25 (TRIM25) E3 ubiquitin ligase, thereby interfering with the association between TRIM25 and retinoic acid-inducible gene I (RIG-I) and inhibiting TRIM25-mediated RIG-I ubiquitination and activation, thereby, Type I IFN production is suppressed by Nucleoprotein. It packages the positive strand viral genome RNA into a helical ribonucleocapsid (RNP) and plays a fundamental role during virion assembly through its interactions with the viral genome and membrane protein M. In addition, Nucleoprotein plays an important role in enhancing the efficiency of subgenomic viral RNA transcription as well as viral replication ^{[1][2]} .
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Caution: Product has not been fully validated for medical applications. For research use only.

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