

Recombinant MERS-CoV N Protein (Met1-Thr411), C-6×His-tagged

Cat. No. N-01M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant MERS-CoV N Protein (Met1-Thr411) with a C-terminal 6-His tag was expressed in <i>Spodoptera frugiperda</i> , Sf 21 (baculovirus).
Species	MERS-CoV
Source	Insect Cells
ProteinLength	Met1-Thr411
Description	MERS-CoV, which causes the Middle East Respiratory Syndrome (MERS), belongs to a family of viruses known as coronaviruses that are commonly comprised of four structural proteins: Spike protein (S), Envelope protein (E), Membrane protein (M), and Nucleocapsid protein (N). While the S, E and M proteins build up the viral envelope, the N protein is involved transcription, replication and packaging of the viral RNA genome into a helical ribonucleocapsid (RNP). The MERS-CoV N protein is a ~45 kDa protein composed of two independent structural domains connected by a linker region. The N-terminal region contains an Intrinsically Disordered Region and an RNA binding domain, the linker region interacts with the M protein and the C-terminal region contains a self-association domain. The MERS-CoV N protein shares 46.3% and 4.5% amino acid sequence identity with SARS-CoV-1 and SARS-CoV-2 N protein, respectively. MERS-CoV N proteins have been shown to inhibit Type I Interferon (IFN) production. In addition, the N protein is an abundant protein during coronavirus infection and displays high immunogenic activity, making it a promising

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	therapeutic target.
Bio-activity	Bioassay data are not available.
Molecular Mass	Predicted Molecular Mass: 46 kDa SDS-PAGE: 49-55 kDa, under reducing conditions
N-terminal Sequence Analysis	Sequence has been confirmed by mass spectrometry
Endotoxin	<0.10 EU/μg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	Reconstitute at 100 μg/mL in PBS.
Shipping	The product is shipped at ambient temperature.

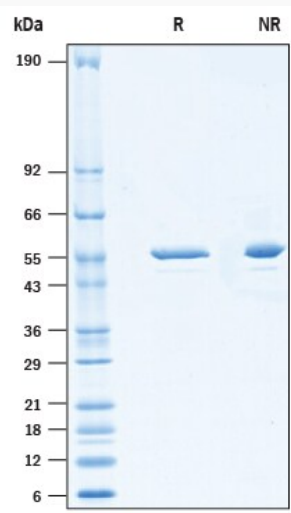
GENE INFORMATION

Gene Name	N nucleocapsid protein [Middle East respiratory syndrome-related coronavirus]
Official Symbol	N

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Synonyms	N; nucleocapsid protein; nucleocapsid protein; nucleoprotein
Gene ID	14254601
Protein Refseq	YP_009047211
UniProt ID	K0BVN3
SDS-PAGE	 2 µg/lane of Recombinant MERS-CoV Nucleocapsid His-tag Protein was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by Coomassie® Blue staining, showing bands at 49-55 kDa.