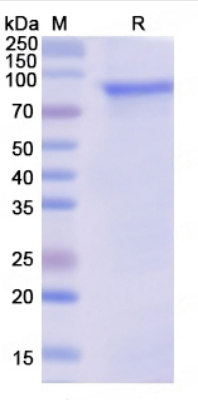
Np/Nucleoprotein (NP) Influenza A Virus Recombinant Protein

PRODUCT OVERVIEW

Product Name	NP/Nucleoprotein, Recombinant Protein
Full Product Name	Recombinant Influenza A virus NP/Nucleoprotein Protein, N-GST & C-His
Product Gene Name	NP recombinant protein
Product Synonym Names	Nucleoprotein; Nucleocapsid protein; Protein N; NP; Influenza Virus (Flu)
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	56,212 Da
Sequence Positions	Met1-Asn498
3D Structure	ModBase 3D Structure for P16982
Species	Influenza A virus
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for NP recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for NP recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for NP recombinant protein	MBS1576671 is a recombinant protein targeting NP. Also known as Recombinant Influenza A virus NP/Nucleoprotein Protein, N-GST & C-His. Host: E coli.
Other Notes	Small volumes of NP recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of NP recombinant protein
SDS PAGE for Recombinant Influenza A virus NP/NucleoProtein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NP. It may not necessarily be applicable to this product.

NCBI GI #	160330938
NCBI GeneID	0
NCBI Accession #	P16982.2
UniProt Primary Accession #	P16982
UniProt Secondary Accession #	Q38SQ4
NCBI Official Full Name	Nucleoprotein
UniProt Protein Name	Nucleoprotein
UniProt Synonym Protein Names	Nucleocapsid protein
Protein Family	Nucleocapsid protein
UniProt Gene Name	NP
UniProt Synonym Gene Names	Protein N
UniProt Comments for NP	Encapsidates the negative strand viral RNA, protecting it from nucleases. The encapsidated genomic RNA is termed the ribonucleoprotein (RNP) and serves as template for transcription and replication. The RNP needs to be localized in the host nucleus to start an infectious cycle, but is too large to diffuse through the nuclear pore complex. NP comprises at least 2 nuclear localization signals that are responsible for the active RNP import into the nucleus through cellular importin alpha/beta pathway. Later in the infection, nclear export of RNPs are mediated through viral proteins NEP interacting with M1 which binds nucleoproteins. It is possible that nucleoprotein binds directly host exportin-1/XPO1 and plays an active role in RNPs nuclear export. M1 interaction with RNP seems to hide nucleoprotein's nuclear localization signals. Soon after a virion infects a new cell, M1 dissociates from the RNP under acidification of the virion driven by M2 protein. Dissociation of M1 from RNP unmasks nucleoprotein's nuclear localization signals, targeting the RNP to the nucleus.
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