Nucleoprotein (NP) Influenza A Virus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Nucleoprotein (NP), Recombinant Protein
Full Product Name	Recombinant Influenza A virus Nucleoprotein (NP)
Product Gene Name	NP recombinant protein
Sequence	MASQGTKRSY EQMETDGERQ NATEIRASVG KMIDGIGRFY IQMCTELKLS DYEGRLIQNS LTIERMVLSA FDERRNKYLE EHPSAGKDPK KTGGPIYKRV DRKWMRELVL YDKEEIRRIW RQANNGDDAT AGLTHMMIWH SNLNDTTYQR TRALVRTGMD PRMCSLMQGS TLPRRSGAAG AAVKGVGTMV MELIRMIKRG INDRNFWRGE NGRKTRIAYE RMCNILKGKF QTAAQRAMMD QVRESRNPGN AEIEDLIFLA RSALILRGSV AHKSCLPACV YGPAVASGYD FEKEGYSLVG IDPFKLLQNS QVYSLIRPNE NPAHKSQLVW MACNSAAFED LRVSSFIRGT KVIPRGKLST RGVQIASNEN MDTMESSTLE LRSRYWAIRT RSGGNTNQQR ASAGQISIQP TFSVQRNLPF DKTTIMAAFT GNAEGRTSDM RAEIIRVMES AKPEEVSFQG RGVFELSDEK AANPIVPSFD MSNEGSYFFG DNAEEYDN
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	56,165 Da
Sequence Positions	1-498aa; Full Length Protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for A4U7B0
Species	Influenza A virus (strain A/USA:Albany/12/1951 H1N1)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for NP recombinant protein	MBS1242132 is a recombinant protein targeting NP. Also known as Recombinant Influenza A virus Nucleoprotein (NP). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
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.

ADDITIONAL DETAILS

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

NCBI GI #	229891137
NCBI Accession #	A4U7B0.1
UniProt Primary Accession #	A4U7B0
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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