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
Product Synonym Names	Nucleoprotein; Nucleocapsid protein; Protein N
Sequence	MASQGTKRSY EQMETGGERQ NATEIRASVG RMVGGIGRFY IQMCTELKLS DYEGRLIQNS ITIERMVLSA FDERRNKYLE EHPSAGKDPK KTGGPIYRRR DGKWMRELIL YDKEEIRRIW RQANNGEDAT AGLTHLMIWH SNLNDATYQR TRALVRTGMD PRMCSLMQGS TLPRRSGAAG AAVKGVGTMV MELIRMIKRG INDRNFWRGE NGRRTRIAYE RMCNILKGKF QTAAQRAMMD QVRESRNPGN AEIEDLIFLA RSALILRGSV AHKSCLPACV YGLAVASGYD FEREGYSLVG IDPFRLLQNS QVFSLIRPNE NPAHKSQLVW MACHSAAFED LRVSSFIRGT RVVPRGQLST RGVQIASNEN METMDSSTLE LRSRYWAIRT RSGGNTNQQR ASAGQISVQP TFSVQRNLPF ERATIMAAFT GNTEGRTSDM RTEIIRMMES ARPEDVSFQG RGVFELSDEK ATNPIVPSFD 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	56,284 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 P69297
Species	Influenza A virus (strain A/Mallard/Astrakhan/244/1982 H14N6) (Influenza A virus (strain A/Mallard/Gurjev/244/1982 H14N6))
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for NP recombinant protein	MBS1069377 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. NP
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 #	60416255
NCBI Accession #	P69297.1

UniProt Primary Accession #	P69297
UniProt Secondary Accession #	P15675; P16977
NCBI Official Full Name	Nucleoprotein
UniProt Protein Name	Nucleoprotein
UniProt Synonym Protein Names	Nucleocapsid protein; Protein N
Protein Family	Nucleocapsid protein
UniProt Gene Name	NP
UniProt Synonym Gene Names	Protein N
UniProt Entry Name	NCAP_I82A0
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 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 and is responsible of the active RNP import into the nucleus through the cellular importin alpha/beta pathway. Later in the infection, nucleus export of RNP are mediated through viral proteins NEP interacting with M1 which binds nucleoproteins. It is possible that the nucleoprotein binds directly exportin-1 (XPO1) and plays an active role in RNP 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 unmask nucleoprotein's nuclear localization signals, targeting the RNP to the nucleus ().
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