

Influenza A virus Nucleoprotein Recombinant Protein | NP recombinant protein

Recombinant Influenza A virus Nucleoprotein

CATALOG # AAA115280	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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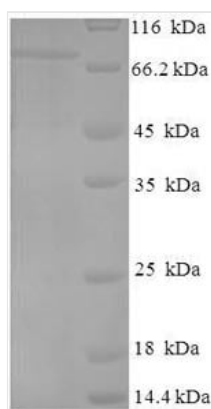
PRODUCT SYNONYMS

Influenza A virus Nucleoprotein; Recombinant Influenza A virus Nucleoprotein; Nucleocapsid protein; Protein N; NP recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-498aa; Full Length Protein
Sequence	MASQGTKRPY EQMETGGERQ NATEIRASVG KMGVGIGRFY IQMCTELKLN DYEGRLIQNS ITIEKMLVLSA FDERRNKYLE EHPNTGKDPK KTGGPYRKR EGKWIRELIL YDKEEIRRIW RQANNGEDAT AGLTHLMIWH SNLNDATYQR TRALVRTGMD PRMCSLMQGS TLPRRSGAAG AAVKGIGTMV MELIRMIKRG INDRNFWRGE NGRKTRIAYE RMCNILKGKF QTAAQRAMMD QVRESRNPNG AEIEDLIFLA RSALILRGSV AHKSCLPACV YGLIVASGYD FEREGLSLVG VDPFKLLQNS QIFSLIRPNE NPAHKSQVLW MACHSAFED LRVSSFIRGT KVIPRGQLST RGIQIASNEN METIDSNTLE LRSRYWAIRT KSGGNTSQQK ASAGQISVQP TFSVQRNLPF ERTTIMAAFT GNEGRTSDM RTEIIRMMEN AKPDDVSFQG RGVFELSDEK ATNPVPSFD MSKEGSYFFG DNAEEFDN
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for NP recombinant protein	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 ses 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.
References	Two subtypes of nucleoproteins (NP) of influenza A viruses.Gammelin M., Mandler J., Scholtissek C.Virology 170:71-80(1989) Evolution of influenza A virus nucleoprotein genes implications for the origins of H1N1 human and classical swine viruses.Gorman O.T., Bean W.J., Kawaoka Y., Donatelli I., Guo Y., Webster R.G.J. Virol. 65:3704-3714(1991) Large-scale sequence analysis of avian influenza isolates.Obenauer J.C., Denson J., Mehta P.K., Su X., Mukatira S., Finkelstein D.B., Xu X., Wang J., Ma J., Fan Y., Rakestraw K.M., Webster R.G., Hoffmann E., Krauss S., Zheng J., Zhang Z., Naeve C.W.Science 311:1576-1580(2006)

NCBI AND UNIPROT INFORMATION

NCBI GI #	139065
UniProt Accession #	P16980; Q20P39
Molecular Weight	58.2 kDa
NCBI Official Full Name	Nucleoprotein
UniProt Protein Name	Nucleoprotein
UniProt Gene Name	NP
UniProt Synonym Gene Names	Protein N
UniProt Entry Name	NCAP_I56A3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/np-recombinant-protein-e-coli/115280>