

Influenza A virus Nucleoprotein (NP) Recombinant Protein | NP recombinant protein

Recombinant Influenza A virus Nucleoprotein (NP)

CATALOG # AAA18706	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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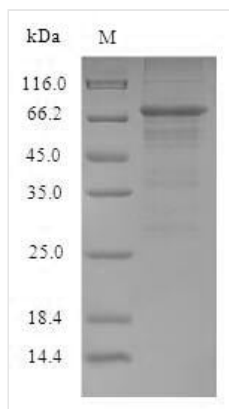
PRODUCT SYNONYMS

Influenza A virus Nucleoprotein (NP); Recombinant Influenza A virus Nucleoprotein (NP); 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	MASQGTKRSY EQMETDGERQ NATEIRASVG KMIGGIGRFY IQMCTELKLS DYEGRLIQNS LTIERMVLSA FDERRNKYLE EHPSAGKDPK KTGGPYRRV NGKWMRELIL YDKEEIRRIW RQANNGDDAT AGLTHMMIWH SNLNDATYQR TRALVRTGMD PRMCSLMQGS TLPRRSGAAG AAVKGVGTMV MELVRMIKRG INDRNFWRGE NGRKTRIAYE RMCNILKGKF QTAAQKAMMD QVRESRNPNG AEFEDLTFLA RSALILRGSV AHKSLPACV YGPASVSGYD FEREGYSLVG IDPFRLQNS QVYSLIRPNE NPAHKSQVLVW MACHSAAFED LRVLSFIKGT KVLPRGKLST RGVQIASNEN METMESSTLE LRSRYWAIRT RSGGNTNQQR ASAGQISIQP TFSVQRNLPF DRTTMAAFN GNTEGRTSDM RTEIIRMES ARPEDVSFQG RGVFELSDEK AASPIVPSFD MSNEGSYFFG DNAEEYDN
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.
Product Categories/Family for NP recombinant protein	Microbiology
References	The structure of the gene encoding the nucleoprotein of human influenza virus A/PR/8/34.Winter G., Fields S.Virology 114:423-428(1981) Complete nucleotide sequence of the nucleoprotein gene from the human influenza strain A/PR/8/34 (HON1) .van Rompuy L., Min Jou W., Huylebroeck D., Devos R., Fiers W.Eur. J. Biochem. 116:347-353(1981) Erratumvan Rompuy L., Min Jou W., Huylebroeck D., Devos R., Fiers W.Eur. J. Biochem. 116:645-645(1981) Plasmid-only rescue of influenza A virus vaccine candidates.Schickli J.H., Flandorfer A., Nakaya T., Martinez-Sobrido L., Garcia-Sastre A., Palese P.Philos. Trans. R. Soc. Lond., B, Biol. Sci. 356:1965-1973(2001) Efficient generation and growth of influenza virus A/PR/8/34 from eight cDNA fragments.de Wit E., Spronken M.I.J., Bestebroer T.M., Rimmelzwaan G.F., Osterhaus A.D.M.E., Fouchier R.A.M.Virus Res. 103:155-161(2004) Fluorescent antigen-transfected target cell cytotoxic T lymphocyte assay for ex vivo detection of antigen-specific cell-mediated cytotoxicity.van Baalen C.A., Kwa D., Verschuren E.J., Reedijk M.L., Boon A.C., de Mutsert G., Rimmelzwaan G.F., Osterhaus A.D., Gruters R.A.J. Infect. Dis. 192:1183-1190(2005) The NIAID influenza genome sequencing project.Ghedin E., Spiro D., Miller N., Zaborsky J., Feldblyum T., Subbu V., Shumway M., Sparenborg J., Groveman L., Halpin R., Sitz J., Koo H., Salzberg S.L., Webster R.G., Hoffmann E., Krauss S., Naeve C., Bao Y., Bolotov P., Dernovoy D., Kiryutin B., Lipman D.J., Tatusova T.A classical bipartite nuclear localization signal on Thogoto and influenza A virus nucleoproteins.Weber F., Kochs G., Gruber S., Haller O.Virology 250:9-18(1998) Modulation of nuclear localization of the influenza virus nucleoprotein through interaction with actin filaments.Digard P., Elton D., Bishop K., Medcalf E., Weeds A., Pope B.J. Virol. 73:2222-2231(1999) Oligomerization of the influenza virus nucleoprotein identification of positive and negative sequence elements.Elton D., Medcalf E., Bishop K., Digard P.Virology 260:190-200(1999) Identification of amino acid residues of influenza virus nucleoprotein essential for RNA binding.Elton D., Medcalf L., Bishop K., Harrison D., Digard P.J. Virol. 73:7357-7367(1999) Interaction of the influenza virus nucleoprotein with the cellular CRM1-mediated nuclear export pathway.Elton D., Simpson-Holley M., Archer K., Medcalf L., Hallam R., McCauley J., Digard P.J. Virol. 75:408-419(2001)

NCBI AND UNIPROT INFORMATION

NCBI GI #	8486130
NCBI GeneID	956531
NCBI Accession #	NP_040982.1
NCBI GenBank Nucleotide #	NC_002019.1
UniProt Accession #	P03466; Q20N34; Q58NB3; Q67228; Q80AB4; AAA43467
Molecular Weight	58.2 kDa
NCBI Official Full Name	nucleocapsid protein
NCBI Official Symbol	NP
NCBI Protein Information	nucleocapsid protein
UniProt Protein Name	Nucleoprotein
UniProt Gene Name	NP
UniProt Synonym Gene Names	Protein N
UniProt Entry Name	NCAP_I34A1

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/np-recombinant-protein-e-coli/18706>