







## Recombinant Influenza A virus Nucleoprotein(NP)

Product Code         CSB-EP529597IMP           Relevance         Encapsidates the negative strand viral RNA, protecting it from nucleases. The encapsidated genomic RNA is termed the ribonucleoprotein (RNP) and serves as tiplate 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 MI 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 nucleoproteins in suclear 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.           Storage         The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.           Uniprot No.         O91743           Storage Buffer         Tris-based buffer,50% glycerol           Alias         Nucleocapsid protein; Protein N           Product Type         Recombinant Protein           Species         Influenza A virus (strain A/Kitakyushu/159/1993 H3N2)           Purity<		
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GRLIQNSLTIERMVLSAFDERRNRYLEEHPSAGKDPKKTGGPIYKRVDGRWM RELVLYDKEEIRRIWRQANNGDDATAGLTHMMIWHSNLNDTTYQRTRALVRT GMDPRMCSLMQGSTLPRRSGAAGAAVKGIGTMVMELIRMIKRGINDRNFWRG ENGRKTRSAYERMCNILKGKFQTAAQRAMMDQVRESRNPGNAEIEDLIFSAR SALILRGSVAHKSCLPACVYGPAVSSGYNFEKEGYSLVGIDPFKLLQNSQVYSL IRPNENPAHKSQLVWMACHSAAFEDLRLLSFIRGTKVSPRGKLSTRGVQIASN ENMDNMESSTLELRSRYWAIRTRSGGNTNQQRASAGQISVQPTFSVQRNLPF EKSTVMAAFTGNTEGRTSDMRAEIIRMMEGAKPEEVSFRGRGVFELSDEKAT NPIVPSFDMSNEGSYFFGDNAEEYDN  Research Area Others  Source E.coli  Gene Names NP	Purity	Greater than 90% as determined by SDS-PAGE.
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Gene Names NP	Research Area	Others
	Source	E.coli
Expression Region 1-498aa	Gene Names	NP
	Expression Region	1-498aa







**Notes** 

Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Tag Info

N-terminal 6xHis-tagged

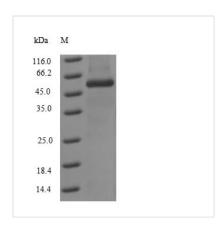
Mol. Weight

60.2kDa

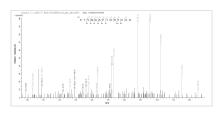
**Protein Description** 

Full Length

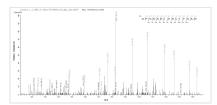
**Image** 



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP529597IMP could indicate that this peptide derived from E.coli-expressed Influenza A virus (strain A/Kitakyushu/159/1993 H3N2) NP.



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