

Recombinant Full Length Influenza A virus Nucleoprotein

Cat. No. NP-02V Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Influenza A virus Nucleoprotein (1-498 aa)
Species	Influenza A virus (strain A/USA:Albany/12/1951 H1N1)
Source	E.Coli/Yeast/Baculovirus/Mammalian Cell
ProteinLength	1-498 aa
Description	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, nuclear 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 un masks nucleoprotein's nuclear localization signals, targeting the RNP to the nucleus.
Tag	This protein contains an N-terminal tag and may also contain a C-terminal tag.
Form	Lyophilized or liquid

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Molecular Mass	56,165 Da
AA Sequence	MASQGTKRSYEQMETDGERQNATEIRASVGKMIDGIGRFYIQMCTELKLSDYEGRLI QNSLTIERMVLSAFDERRNKYLEEHPSAGKDPKKTGGPIYKRVDRKWMRELVLVDK EEIRRIWRQANNGDDATAGLTHMMIWHSNLNDTTYQRTRALVRTGMDPRMCSLMQ GSTLPRRSGAAGAAVKGVGTMVMELIRMIKRGINDRNFWRGENGRKTRIAYERMEN ILKGGKFQTAQGRAMMDQVRESRNPNGNAEIEDLIFLARSALILRGSVAHKSCLPACVY GPAVASGYDFEKEGYSLVGIDPFKLLQNSQVYSLIRPNENPAHKSQVLVWMAENSA FEDLRVSSFIRGTVIPRGKLSTRGVQIASNENMDTMESSTLELRSRYWAIRTRSGG NTNQQRASAGQISIQPTFSVQRNLPFDKTTIMAAFTGNAEGRTSDMRAEIIRVMESA KPEEVSFQGRGVFELSDEKAANPIVPSFDMSNEGSYFFGDNAEEYDN
Endotoxin	Low endotoxin available upon request.
Purity	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Storage	Store at -20 centigrade. For long-term storage, store at -20 centigrade or -80 centigrade. Store working aliquots at 4 centigrade for up to one week. Repeated freezing and thawing is not recommended.
GENE INFORMATION	
Official Symbol	NP
Synonyms	Nucleoprotein; NP; Protein N
UniProt ID	A4U7B0