Recombinant IAV NP Protein (Met1-Asn498), N-His tagged

Cat. No. NP-5392I **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Influenza A virus NP/Nucleo (Met1-Asn498) fused with the N-terminal His tag was expressed in E. coli.
Species	IAV
Source	E.coli
ProteinLength	Met1-Asn498
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, nclear 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 unmasks nucleoprotein's nuclear localization signals, targeting the RNP to the nucleus.
Form	Lyophilized powder/frozen liquid

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Molecular Mass	56.24 kDa
Purity	>90% as determined by SDS-PAGE.
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS pH 7.4.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	NP nucleoprotein [Influenza A virus (A/Puerto Rico/8/1934(H1N1))]
Official Symbol	NP
Synonyms	NP; nucleoprotein
Gene ID	956531
Protein Refseq	NP_040982
UniProt ID	P15682

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