

Recombinant Influenza A Nucleoprotein

Cat. No. NP-0068I **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Influenza A Nucleoprotein without tag was expressed in HEK293.
Species	IAV
Source	HEK293
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 unmask nucleoprotein's nuclear localization signals, targeting the RNP to the nucleus.
Applications	ELISA, CLIA, CG
Notes	For research use only, not for use in diagnostic procedure.
Storage	Short term (up to 7 days) store at 2–8 centigrade. Long term, store at - 20 centigrade.

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Avoid multiple freeze/thaw cycles.

Storage Buffer Supplied as a 0.2 µm filtered solution of PBS, pH7.4

GENE INFORMATION

Gene Name NP nucleoprotein [Influenza A virus (A/Puerto Rico/8/1934(H1N1))]

Official Symbol NP

Synonyms NP nucleoprotein [Influenza A virus (A/Puerto Rico/8/1934(H1N1))]

Gene ID 956531

Protein Refseq NP_040982

UniProt ID P03466

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