

Product Datasheet

Influenza A H3N2 (strain A/Shanghai/16/1989) Nucleoprotein/NP Protein (His) (orb1977570)

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 unmasks nucleoprotein's nuclear localization signals, targeting the RNP to the nucleus.
Storage	-20°C
Tag	N-6xHis
Note	For research use only
Application notes	A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.
Protein Sequence	MASQGTKRSYEQMETDGERQNATEIRASVGKMGIDGIRFYIQMCTELKLSDYEGRLIQNSLT VERMVLSAFDERRNRYLEEHPGAKDPKKTGGPIYKRVGGRWMRELVLVDKEEIRRIWRQA NNGDDATRGLTHMMIWHNSLNDDTTYQRTALVRTGMDPRMCSLMQGSTLPRRSGAAGA AVKGIGTMVMELIRMIKRGINDRNFWRGENGKTRSAYERMCNILKGKFQTAQRAMMDQ VRESRNPNGAEIEDLIFSARSALILRGVVAHKSCLPACVYGPVSSGYDFEKEGYSLVGIDPF KLLQNSQVYSLIRPNENPAHKSQVLWMACHSAAFEDLRLLSFIRGTKVSPRGKLSTRGVQIA SNENMDNMESSTLELRSLRYWAIRTRSGGNTNQQRASAGQISVQPTFSVQRNLPFEKSTVM AAFTGNTEGRTSDMRAEIIIRMMEGAKPEEVSFGRGVFELSDEKATNPVPSFDMSNEGSY FFGDNAEEYDN
Purity	98.00%

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MW	60.2 kDa (predicted)
Uniprot ID	P69296
Expiration Date	6 months from date of receipt.

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