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Recombinant Influenza B virus Nucleoprotein(NP)

Catalog Number: RPC22762

Product Name	Recombinant Influenza B virus Nucleoprotein(NP)
Catalog Number	RPC22762
Expression host	<i>E.coli</i>
Product Info	N-terminal 6xHis-SUMO-tagged
Storage Buffer	Lyophilized from 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0.
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Relevance	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 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 M1 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 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 (By similarity).
AA sequence	MSNMDIDSINTGTIDKTPEELTPGTSGATRPIIKPATLAPPSNKRTRNPSPERTTTSS ETDIGRKIQKKQTPTEIKKSVYKMVVKLGEFYNQMMVKAGLNDDMERNLIQNA QAVERRILLAATDDKKTEYQKKRNARDVKEGKEEIDHNKTGGTFYKMVRDDKTI YFSPIKITFLKEEVKTMKTTMGSDGFSGLNHIMIGHSQMNDVCFQRSKGLKRV GLDPSLISTFAGSTLPRRSGTTGVAIKGGGTLVDEAIRFIGRAMADRGLLRDIKAK TAYEKILLNLKNKCSAPQQKALVDQVIGSRNPGIADIEDLTLLARSMVVVRPSVA SKVVLPISIYAKIPQLGFNTEEYSMVGYEAMALYNMATPVSILRMGDDAKDKSQ LFFMSCFGAAYEDLRVLSALTGTEFKPRSALKCKGFHVPAGEQVEGMGAALMSI KLQFWAPMTRSGGNEVSGEGGSGQISCSPVFAVERPIALSKQAVRRMLSMNVEG RDADVKGNNLLKMMNDSMAKKTSIGNAFIGKKMFQISDKNKNVNPPIEPIKQTIPNF

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