



**Biomatik**  
 Tel:(519) 489-7195,(800) 836-8089  
 Fax:(519) 231-0140,(877) 221-3515  
 Email:info@biomatik.com  
 http://www.biomatik.com

## Recombinant Influenza A virus Nucleoprotein(NP)

**Catalog Number:** RPC22678

<b>Product Name</b>	Recombinant Influenza A virus Nucleoprotein(NP)
<b>Catalog Number</b>	RPC22678
<b>Expression host</b>	<i>E.coli</i>
<b>Product Info</b>	N-terminal 6xHis-B2M-tagged
<b>Storage Buffer</b>	Lyophilized from 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0. The volume before lyophilization is 1000µl/vial.
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Relevance</b>	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.
<b>AA sequence</b>	MASQGTKRSYEQMETDGERQNATEIRASVGMIGGIGRFYIQMCTELKLSDYEG RLIQNSLTIERMVLSAFDERRNKYLEEHPSAGKDPKKTGGPIYRRVNGKWMRELI LYDKEEIRRIWRQANNGDDATAGLTHMMIWHSNLNDATYQRTRALVRTGMDPR MCSLMQGSTLPRRSGAAGAAVKGVGTMVMELVRMIKRGINDRNFWRGENGRK TRIAYERMCNILKGFQTAQAQKAMMDQVRESRNPNAEFEDLTFLARSALILRG SVAHKSCLPACVYGPVAVASGYDFEREGYSLVGDIPFRLQNSQVYSLIRPNENPAH KSQLVWMACHSAAFEDLRVLSFIKGTKVLPRGKLSTRGVQIASNENMETMESST



**Biomatik**

Tel:(519) 489-7195,(800) 836-8089

Fax:(519) 231-0140,(877) 221-3515

Email:info@biomatik.com

<http://www.biomatik.com>

	LELRSRYWAIRTRSGGNTNQQRASAGQISIQPTFSVQRNLPDRRTTMAAFNGNTE GRTSDMRTEIIRMMESARPEDVSFQGRGVFELSDEKAASPIVPSFDMSNEGSYFF GDNAEEYDN
--	---