

## Nucleoprotein/NP Protein, H1N1 (ACS94534, sf9, His)

Cat. No.:	HY-P74679
Synonyms:	Influenza A H1N1 (A/California/07/2009) Nucleoprotein / NP Protein (sf9, His)
Species:	Virus
Source:	Sf9 insect cells
Accession:	ACS94534 (M1-S498)
Gene ID:	/
Molecular Weight:	Approximately 53.5 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, 10% Glycerol, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	Influenza virus nucleoprotein (NP) is a structural protein that coats viral negative-strand RNA. NP is one of the main determinants of species specificity. The extent to which NP genes can be reprogrammed to cross the species barrier and adapt to a new host by mutation. NP proteins protect viral RNA from degradation by cellular enzymes during the viral life cycle, fit the helical structure of RNP, regulate transcription and replication of viral RNA templates in a histone-like manner, and induce immunosuppression (inhibition of effector cytokine synthesis and FcR drug signaling) during infection. NP is a very promising target for future vaccine development <sup>[1][2]</sup> .
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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