

## HA/Hemagglutinin Protein, H3N2 (P03438, sf9, His)

Cat. No.:	HY-P75077
Synonyms:	Influenza A H3N2 (A/X-31) Hemagglutinin / HA Protein (sf9, His)
Species:	Virus
Source:	Sf9 insect cells
Accession:	P03438 (M1-W530)
Gene ID:	/
Molecular Weight:	Approximately 59.1 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	The HA/Hemagglutinin Protein binds to sialic acid-containing receptors on the cell surface, facilitating attachment of the virus particle. This attachment leads to internalization of about two thirds of the virus particles through clathrin-dependent endocytosis and about one third through a clathrin- and caveolin-independent pathway. It plays a crucial role in determining host range restriction and virulence. As a class I viral fusion protein, it is responsible for penetrating the cell cytoplasm by mediating the fusion of the endocytosed virus particle membrane with the endosomal membrane. In the low pH environment of endosomes, there is an irreversible conformational change in HA2, which releases the fusion hydrophobic peptide. Multiple trimers of HA are necessary for the formation of a competent fusion pore.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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