

## HA/Hemagglutinin Protein, H3N2 (P03437, sf9, His)

Cat. No.:	HY-P75079
Synonyms:	Influenza A H3N2 (A/Aichi/2/1968) Hemagglutinin / HA Protein (sf9, His)
Species:	Virus
Source:	Sf9 insect cells
Accession:	P03437 (M1-W530)
Gene ID:	/
Molecular Weight:	Approximately 59 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of 20 mM Tris, 500 mM NaCl, 10% Glycerol, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/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	HA/Hemagglutinin Protein binds to sialic acid-containing receptors on the cell surface, facilitating the attachment of the virus particle to the cell. This attachment leads to the internalization of approximately two thirds of the virus particles through clathrin-dependent endocytosis and around one third through a clathrin- and caveolin-independent pathway. It plays a crucial role in determining the host range restriction and virulence. As a class I viral fusion protein, it is responsible for mediating the fusion of the endocytosed virus particle membrane with the endosomal membrane, enabling the penetration of the virus into the cell cytoplasm. The acidic environment in endosomes triggers an irreversible conformational change in HA2, resulting in the release of the fusion hydrophobic peptide. Multiple trimers of HA/Hemagglutinin Protein are necessary to form a functional fusion pore.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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