

## HA/Hemagglutinin Protein, H1N1 (P03452, sf9, His)

Cat. No.:	HY-P74034
Synonyms:	HA; Hemagglutinin; HA/Hemagglutinin Protein, H1N1 (A/Puerto Rico/8/1934, sf9, His)
Species:	Virus
Source:	Sf9 insect cells
Accession:	P03452 (D18-Q528)
Gene ID:	956529
Molecular Weight:	Approximately 59.2 kDa

### PROPERTIES

Biological Activity	Measured by its ability to agglutinate guinea pig red blood cells. HA titer is 0.02-0.4 µg/mL for 1% GRBC.
Appearance	Solution
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, 10% Glycerol, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

### DESCRIPTION

#### Background

The Hemagglutinin Protein (HA), a class I viral fusion 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 virion internalization through clathrin-dependent endocytosis or clathrin- and caveolin-independent pathways. HA also plays a crucial role in determining the host range restriction and virulence of the virus. By mediating the fusion of the endocytosed virus particle's membrane with the endosomal membrane, HA enables the penetration of the virus into the cell cytoplasm. In the low pH environment of endosomes, HA2 undergoes an irreversible conformational change, releasing the fusion hydrophobic peptide and forming a competent fusion pore. HA exists as a homotrimer composed of disulfide-linked HA1-HA2 subunits and interacts with human CACNA1C.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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