

HA/Hemagglutinin Protein, H8N4 (ABB87729, sf9, His)

Cat. No.:	HY-P77033
Synonyms:	Influenza A H8N4 (A/pintail duck/Alberta/114/1979) Hemagglutinin / HA Protein (His)
Species:	Virus
Source:	Sf9 insect cells
Accession:	ABB87729 (M1-Q529)
Gene ID:	/
Molecular Weight:	Approximately 53.1 kDa.

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, 10% Glycerol, pH 7.4.
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	<p>The Hemagglutinin HA1 protein is instrumental in the attachment of virus particles to host cells by binding to sialic acid-containing receptors on the cell surface. This attachment triggers virion internalization through either clathrin-dependent endocytosis or a clathrin- and caveolin-independent pathway. HA1 plays a crucial role in determining host range restriction and virulence, functioning as a Class I viral fusion protein that facilitates the penetration of the virus into the cell cytoplasm by mediating the fusion of the endocytosed virus particle's membrane with the endosomal membrane. The low pH environment in endosomes induces an irreversible conformational change in HA2, leading to the release of the fusion hydrophobic peptide. The formation of a competent fusion pore requires the cooperative action of several trimers, underscoring the intricate mechanisms by which HA1 contributes to viral entry and infection.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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