

HA/Hemagglutinin Protein, H4N8 (P19695, HEK293, His)

Cat. No.:	HY-P75878
Synonyms:	Influenza A H4N8 (A/chicken/Alabama/1/1975) Hemagglutinin / HA Protein (His)
Species:	Virus
Source:	HEK293
Accession:	P19695 (M1-I528)
Gene ID:	/
Molecular Weight:	Approximately 75 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ 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 HA1 protein, also known as Hemagglutinin, 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 about two thirds of the virus particles through clathrin-dependent endocytosis and approximately one third through a clathrin- and caveolin-independent pathway. HA1 also plays a crucial role in determining the host range restriction and virulence of the virus. As a class I viral fusion protein, it is responsible for penetrating the cell cytoplasm by mediating the fusion of the membrane of the endocytosed virus particle with the endosomal membrane. The low pH environment in endosomes triggers an irreversible conformational change in HA2, releasing the fusion hydrophobic peptide. The formation of a competent fusion pore requires multiple trimers of HA.
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Caution: Product has not been fully validated for medical applications. For research use only.

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