HA1/Hemagglutinin Protein, H1N1 (A4U7A6, HEK293, His)

Cat. No.:	HY-P74995
Synonyms:	Influenza A H1N1 (A/Albany/12/1951) Hemagglutinin / HA1 Protein (His)
Species:	Virus
Source:	HEK293
Accession:	A4U7A6 (M1-R344)
Gene ID:	/
Molecular Weight:	Approximately 38.2 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm 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/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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 Hemagglutinin Protein (HA1/Hemagglutinin Protein) binds to sialic acid-containing receptors on the cell surface, facilitating the attachment of the virus particle to the cell. This attachment triggers the internalization of the virion through clathrin-dependent endocytosis or a clathrin- and caveolin-independent pathway. HA1/Hemagglutinin Protein 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 virus into the cell cytoplasm by mediating the fusion of the endocytosed virus particle's membrane with the endosomal membrane. The acidic environment in endosomes induces an irreversible conformational change in HA2, leading to the release of the fusion hydrophobic peptide. Several trimers of HA1/Hemagglutinin Protein are required to form a competent fusion pore. HA1/Hemagglutinin Protein exists as a homotrimer, consisting of disulfide-linked HA1-HA2 subunits and interacts with human CACNA1C.

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