

HA1/Hemagglutinin Protein, H14N5 (P26136, HEK293, His)

Cat. No.:	HY-P75000
Synonyms:	Influenza A H14N5 (A/mallard/Astrakhan/263/1982) Hemagglutinin Protein (HA1 Subunit) (His)
Species:	Virus
Source:	HEK293
Accession:	P26136 (M1-K342)
Gene ID:	/
Molecular Weight:	Approximately 53.7 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.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/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	<p>The HA1/Hemagglutinin protein binds to receptors on the cell surface that contain sialic acid, facilitating the attachment of the virus particle to the cell. This attachment leads to internalization of approximately two thirds of the virus particles through a process called clathrin-dependent endocytosis, while about one third enters through a clathrin- and caveolin-independent pathway. The HA1 protein plays a crucial role in determining host range restriction and virulence of the virus. As a class I viral fusion protein, it enables the virus to penetrate the cell cytoplasm by mediating the fusion of the viral membrane with the endosomal membrane. The acidic environment in endosomes triggers a irreversible conformational change in the HA2 subunit, causing the release of a hydrophobic peptide required for fusion. The formation of a competent fusion pore necessitates the presence of multiple trimers of the HA1/Hemagglutinin protein.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA