Hemagglutinin/HA Protein, H14N5 (P26136, sf9, His)

Cat. No.:	HY-P77020
Synonyms:	Influenza A H14N5 (A/mallard/Astrakhan/263/1982) Hemagglutinin / HA Protein (His)
Species:	Virus
Source:	Sf9 insect cells
Accession:	P26136 (M1-D531)
Gene ID:	/
Molecular Weight:	Approximately 58.6 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris, 500 mM NaCl, 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 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.

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