

HA/Hemagglutinin Protein, H5N8 (P11135, HEK293, His)

Cat. No.:	HY-P73970
Synonyms:	HA; Hemagglutinin; HA/Hemagglutinin Protein, H5N8 (A/turkey/Ireland/1378/1983, HEK293, His)
Species:	Virus
Source:	HEK293
Accession:	P11135 (M1-R339)
Gene ID:	/
Molecular Weight:	Approximately 37.8 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	The HA/Hemagglutinin protein 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 via clathrin-dependent endocytosis and about one third via a clathrin- and caveolin-independent pathway. HA 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. In the low pH environment of endosomes, HA2 undergoes an irreversible conformational change, releasing the fusion hydrophobic peptide and forming a competent fusion pore. Multiple trimers of HA are required for the formation of this pore.
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Caution: Product has not been fully validated for medical applications. For research use only.

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