HA/Hemagglutinin Protein, H5N1 (Q692M2, HEK293, His)

Cat. No.:	HY-P73979
Synonyms:	HA; Hemagglutinin; HA/Hemagglutinin Protein, H5N1 (A/chicken/Jilin/9/2004, HEK293, His)
Species:	Virus
Source:	HEK293
Accession:	Q692M2 (M1-R342)
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 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 triggers virion internalization through either clathrin-dependent endocytosis or a clathrin- and caveolin-independent pathway. It 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 mediating the fusion of the membrane of the endocytosed virus particle with the endosomal membrane, allowing the penetration of the virus into the cell cytoplasm. The low pH environment in endosomes causes an irreversible conformational change in HA2, leading to the release of the fusion hydrophobic peptide. Multiple trimers are necessary to form a competent fusion pore.

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