

HA/Hemagglutinin Protein, H3N2 (Q91MA7, HEK293, His)

Cat. No.:	HY-P75076
Synonyms:	Influenza A H3N2 (A/Hong Kong/1/1968) Hemagglutinin / HA Protein (HEK293, His)
Species:	Virus
Source:	HEK293
Accession:	Q91MA7 (M1-S524)
Gene ID:	/
Molecular Weight:	Approximately 57.2 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m 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/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/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 Hemagglutinin Protein (HA) 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 either through clathrin-dependent endocytosis or a clathrin- and caveolin-independent pathway. HA 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 membrane of the endocytosed virus particle with the endosomal membrane. The acidic environment in endosomes causes a permanent change in the conformation of HA2, leading to the release of the fusion hydrophobic peptide. Multiple trimers of HA are necessary to form a competent fusion pore. HA exists as a homotrimer, with disulfide-linked HA1-HA2 subunits.
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Caution: Product has not been fully validated for medical applications. For research use only.

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