

## HA/Hemagglutinin Protein, H9N2 (Q9ICY5, 523a.a, HEK293, His)

Cat. No.:	HY-P74448
Synonyms:	Influenza A H9N2 (A/Hong Kong/1073/99) Hemagglutinin / HA Protein (His)
Species:	Virus
Source:	HEK293
Accession:	Q9ICY5 (M1-K523)
Gene ID:	1460996
Molecular Weight:	65-75 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ 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/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> 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 protein 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 virus either through clathrin-dependent endocytosis or through a clathrin- and caveolin-independent pathway. The HA protein is crucial for 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 endocytosed virus particle's membrane with the endosomal membrane, enabling the penetration of the virus into the cell cytoplasm. In the low pH environment of endosomes, the HA2 undergoes an irreversible conformational change, resulting in the release of the fusion hydrophobic peptide. Multiple HA trimers are required to form a competent fusion pore.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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