

## HA/Hemagglutinin Protein, H1N1 (sf9, His)

<b>Cat. No.:</b>	HY-P72800
<b>Synonyms:</b>	Hemagglutinin; HA; Influenza A virus (strain swl A/California/04/2009 H1N1)
<b>Species:</b>	Virus
<b>Source:</b>	Sf9 insect cells
<b>Accession:</b>	C3W5S1 (M1-Q529)
<b>Gene ID:</b>	/
<b>Molecular Weight:</b>	Approximately 66 kDa

### PROPERTIES

#### AA Sequence

M K A I L V V L L Y	T F A T A N A D T L	C I G Y H A N N S T	D T V D T V L E K N
V T V T H S V N L L	E D K H N G K L C K	L R G V A P L H L G	K C N I A G W I L G
N P E C E S L S T A	S S W S Y I V E T P	S S D N G T C Y P G	D F I D Y E E L R E
Q L S S V S S F E R	F E I F P K T S S W	P N H D S N K G V T	A A C P H A G A K S
F Y K N L I W L V K	K G N S Y P K L S K	S Y I N D K G K E V	L V L W G I H H P S
T S A D Q Q S L Y Q	N A D T Y V F V G S	S R Y S K K F K P E	I A I R P K V R D Q
E G R M N Y Y W T L	V E P G D K I T F E	A T G N L V V P R Y	A F A M E R N A G S
G I I I S D T P V H	D C N T T C Q T P K	G A I N T S L P F Q	N I H P I T I G K C
P K Y V K S T K L R	L A T G L R N I P S	I Q S R G L F G A I	A G F I E G G W T G
M V D G W Y G Y H H	Q N E Q G S G Y A A	D L K S T Q N A I D	E I T N K V N S V I
E K M N T Q F T A V	G K E F N H L E K R	I E N L N K K V D D	G F L D I W T Y N A
E L L V L L E N E R	T L D Y H D S N V K	N L Y E K V R S Q L	K N N A K E I G N G
C F E F Y H K C D N	T C M E S V K N G T	Y D Y P K Y S E E A	K L N R E E I D G V
K L E S T R I Y Q			

**Appearance** Lyophilized powder.

**Formulation** Lyophilized from a 0.2 µm filtered solution of 20 mM PB, pH 7.4, 300 mM NaCl, 5% mannitol, 5% trehalose.

**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<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

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**Background**

Binds to sialic acid-containing receptors on the cell surface, facilitating the attachment of the virus particle. This attachment leads to the internalization of the virion through either clathrin-dependent endocytosis or a clathrin- and caveolin-independent pathway. HA/Hemagglutinin Protein plays a crucial role in determining the host range restriction and virulence of the virus. It acts as a Class I viral fusion protein, enabling the penetration of the virus into the cell cytoplasm by mediating the fusion of the endocytosed virus particle's membrane with the endosomal membrane. The acidic pH in endosomes triggers a conformational change in HA2, causing the release of the fusion hydrophobic peptide. Multiple trimers are necessary to form a functional fusion pore.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA