

## Recombinant Influenza A H1N1 (A/California/04/2009(H1N1)) HA Protein, His-tagged

Cat. No. HA-011 Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Influenza A H1N1 (A/California/04/2009(H1N1)) Hemagglutinin with his-tag produced in Sf9 Cell is a single, glycosylated polypeptide chain containing 520 amino acids. A fully biologically active molecule, HA-H1N1 has a molecular mass of ~66 kDa analyzed by reducing SDS-PAGE.

**Species** Influenza A H1N1

**Source** Insect Cells

**ProteinLength** 520

**Description** Influenza hemagglutinin (HA) is a glycoprotein found on the surface of the influenzavirus. It is responsible for binding the virus to cells with sialic acid on their membranes, such as cells in the upper respiratory tract or erythrocytes. It is also responsible for the fusion of the viral envelope with the endosome membrane after the pH has been reduced. The name "hemagglutinin" comes from the protein's ability to cause red blood cells (erythrocytes) to clump together in vitro. HA has two functions. First, it allows the recognition of target vertebrate cells, accomplished through binding to these cells' sialic acid-containing receptors. Second, once bound it facilitates the entry of the viral genome into the target cells by causing the fusion of the host endosomal membrane with the viral membrane. H1N1 is a subtype of influenza virus A and the most common cause of influenza in humans.

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<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	~66 kDa
<b>AA Sequence</b>	<p>MKAILVLLLYTFATANADTLCIGYHANNSTDTVDTVLEKNVTVTHSVNLLLEDKHNGKL            CKLRGVAPLHLGKCNIA GWILGNPECESLSTASSWSYIVETPSSDNGTCYPGDFIDY            EELREQLSSVSSFERFEIFPKTSSWPNHDSNKGVTAACPHAGAKSFYKNLIWLVKKG            NSYPKLSKSYINDKGKEVLVLWGIHHPSTSADQQSLYQNADTYVFGSSRYSKKFKP            EIAIRPKVRDQEGRMNYYWTLVEPGDKITFEATGNLVVPRYAFAMERNAGSGIIISDT            PVHDCNTTCQTPKGAIN TSLPFQNIHPITIGKCPKYVKSTKLRLATGLRNIPSIQSRGL            FGAIAGFIEGGWTGMVDGWYGYHHQNEQSGYAADLKSTQNAIDEITNKVNSVIEK            MNTQFTA V GKEFNHLEKRIENLNKKVDDGFLDIWTYNAELLVLENER TLDYHDSNV            KNLYEKVRSQ LKNNAKEIGNGC FE FYHKCDNTCMESVKNGTYDYPKYSEEAKLNRE            EIDGVKLESTRIYQH HHHHHHHH</p>
<b>Endotoxin</b>	< 1 EU/μg, determined by LAL method.
<b>Purity</b>	> 95 % by SDS-PAGE and HPLC analyses.
<b>Stability</b>	<p>Lyophilized recombinant Influenza A H1N1 (A/California/04/2009(H1N1))            Hemagglutinin remains stable up to 6 months at -80 centigrade from date of receipt.            Upon reconstitution, HA-H1N1 remains stable up to 2 weeks at 4 centigrade or up to            3 months at -20 centigrade.</p>
<b>Storage Buffer</b>	Lyophilized in 20 mM PB buffer (pH 7.4), 300 mM NaCl, 5% mannitol, 5% trehalose.
<b>Reconstitution</b>	Dissolve the protein in sterile double distilled water to a concentration of 0.2 mg/mL or lower.

## GENE INFORMATION

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<b>Gene Name</b>	HA hemagglutinin [ Influenza A virus (A/California/07/2009(H1N1)) ]
<b>Official Symbol</b>	HA
<b>Synonyms</b>	HA; hemagglutinin; hemagglutinin; HA1; HA2
<b>Gene ID</b>	23308115
<b>Protein Refseq</b>	YP_009118626
<b>UniProt ID</b>	C3W627

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