

Overview

Synonyms	HA
Description	<p>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 <i>in vitro</i>. 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.</p> <p>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 and is obtained by proprietary chromatographic techniques.</p>
Accession No	ACP41105.1
Species	Hemagglutinin
Source	<i>Sf9 insect cells</i>
Biological Activity	This recombinant protein has not been tested.
Sequence	<pre> MKAILVLLY TFATANADTL CIGYHANNST DTVDTVLEKN VTVTHSVNLL EDKHNGKLCCK LRGVAPLHLG KCNIAGWILG NPECESLSTA SWSYIVETP SSDNGTCYPG DFIDYEELRE QLSSVSSFER FEIFPKTSSW PNHDSNKGVT AACPHAGAKS FYKNLIWLVK KGNSYPKLSK SYINDKGKEV LVLWGIHHP TSADQQSLYQ NADTYVFGVS SRYSKKFKPE IAIRPKVRDQ EGRMNYWTL VEPGDKITFE ATGNLVVPRY AFAMERNAGS GIIISDTPVH DCNTTCQTPK GAINISLFPQ NIHPITIGKC PKYVKSTKLR LATGLRNIPS IQSRGLFGAI AGFIEGGWTG MVDGWYGYHH QNEQSGYAA DLKSTQNAID EITNKVNSVI EKMNTQFTAV GKEFNHLEKR IENLNKKVDD GFLDIWTYNA ELLVLENER TLDYHDSNVK NLYEKVRSQ KNNAKEIGNG CFEFYHKCDN TCMESVKNGT YDYPKYSEEA KLNREEIDGV KLESTRIYQH HHHHHHH </pre>

Properties

Measured Molecular Weight	~66 kDa, observed by reducing SDS-PAGE.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Formulation	Lyophilized in 20 mM PB buffer (pH 7.4), 300 mM NaCl, 5% mannitol, 5% trehalose.
Reconstitution	Dissolve the protein in sterile double distilled water to a concentration of 0.2 mg/ml or lower.
Endotoxin Level	< 1 EU/μg, determined by LAL method.
Storage	Lyophilized recombinant Influenza A H1N1 (A/California/04/2009(H1N1)) Hemagglutinin remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, HA-H1N1 remains stable up to 2 weeks at 4°C or up to 3 months at -20°C.
Note	For research use only

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