

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

Cat. No. HA-01I 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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Lyophilized
Molecular Mass	~66 kDa
AA Sequence	MKAILVLLYTFATANADTLCIGYHANNSTDTVDTVLEKNVTVTHSVNLLEDKHNGKL CKLRGVAPLHLGKCNIAGWILGNPECESLSTASSWSYIVETPSSDNGTCYPGDFIDY EELREQLSSVSSFERFEIFPKTSSWPNHDSNKGVTAACPHAGAKSFYKNLIWLVKKG NSYPKLSKSYINDKGKEVLVLWGIHPSTSADQQSLYQNADTYVFGSSRYSKKFKP EIAIRPKVRDQEGRMNYYWTLVEPGDKITFEATGNLVVPRYAFAMERNAGSGIIISDT PVHDCNTTCQTPKGAINSTLPPFQNIHPITIGKCPKYVKSTKLRLATGLRNIPSIQSRGL FGAIAGFIEGGWTGMVDGWYGYHHQNEQSGGYAADLKSTQNAIDEITNKVNSVIEK MNTQFTAVGKEFNHLEKRIENLNKKVDDGFLDIWTYNAELLVLENERLTDYHDSNV KNLYEKVRSQKNNAKEIGNGCFEFYHKCDNTCMESVKNNGTYDYPKYSEEAKLNRE EIDGVKLESTRIYQHHHHHHHH
Endotoxin	< 1 EU/μg, determined by LAL method.
Purity	> 95 % by SDS-PAGE and HPLC analyses.
Stability	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.
Storage Buffer	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.

GENE INFORMATION

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

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