Datasheet for ABIN2017945

Hemagglutinin Protein (HA) (AA 18-529) (His tag)

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Overview

Quantity:	100 µg
Target:	Hemagglutinin (HA)
Protein Characteristics:	AA 18-529
Origin:	Influenza A Virus H1N1
Virus Strain:	A/California/04/2009
Source:	Insect cells (Sf9)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Hemagglutinin protein is labelled with His tag.

Product Details

Specificity:	Influenza A H1N1 (A/California/04/2009(H1N1))
Characteristics:	AA 18-529, expressed with C-terminus 8*His-Tag.
Purity:	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin Level:	< 1 EU/µg, determined by LAL method.

Target Details

Target:	Hemagglutinin (HA)
Alternative Name:	Hemagglutinin (HA Products)
Target Type:	Influenza Protein
Background:	Influenza hemagglutinin (HA) is a glycoprotein found on the surface of the influenzavirus. It is

Target Details

	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. 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. Synonyms: HA
Molecular Weight:	66 kDa, observed by reducing SDS-PAGE.

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Dissolve the protein in sterile double distilled water to a concentration of 0.2 mg/mL or lower.
Buffer:	Lyophilized in 20 mM PB buffer (pH 7.4), 300 mM NaCl, 5 % mannitol, 5 % trehalose.
Storage:	-80 °C
Storage Comment:	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.
Expiry Date:	6 months