Recombinant H3N2(A/Perth/16/2009) Hemagglutinin Protein, His-tagged

Cat. No. HA-391H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant H3N2(A/Perth/16/2009) hemagglutinin (ACS71642.1) (Met1-Lys519, with a mutation Tyr 108 Phe), was expressed with a polyhistidine tag at the C-terminus.
Species	H3N2
Source	Insect Cells
ProteinLength	Met1-Lys519
Description	The influenza viral Hemagglutinin (HA) protein is a homo trimer with a receptor binding p centigradeket on the globular head of each monomer.HA has at least 18 different antigens. These subtypes are named H1 through H18.HA has two functions. Firstly, it allows the recognition of target vertebrate cells, accomplished through the binding to these cells' sialic acid-containing receptors. Secondly, once bound it facilitates the entry of the viral genome into the target cells by causing the fusion of host endosomal membrane with the viral membrane.The influenza virus Hemagglutinin (HA) protein is translated in cells as a single protein, HA0, or hemagglutinin precursor protein. For viral activation, hemagglutinin precursor protein (HA0) must be cleaved by a trypsin-like serine endoprotease at a specific site, normally coded for by a single basic amino acid (usually arginine) between the HA1 and HA2 domains of the protein. After cleavage, the two disulfide-bonded protein domains produce the mature form of the protein subunits as a prerequisite for the

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

	conformational change necessary for fusion and hence viral infectivity.
Predicted N Terminal	Gln 17
Form	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, pH 7.4. Normally 5 %- 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant hemagglutinin of Influenza A virus consists of 514 amino acids and predicts a molecular mass of 58 kDa.
Endotoxin	< 1.0 EU per μg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE.
Storage	Samples are stable for up to twelve months from date of receipt at-70 centigrade. Store it under sterile conditions at-20 centigrade to-80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4℃ before opening to recover the entire contents.

GENE INFORMATION

Official Symbol	HA
Synonyms	hemagglutinin;HA

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