

Recombinant H5N1 HA, His-tagged

Cat. No. HA-445H **Lot. No.** (See product label)

SPECIFICATION

Product Overview A DNA sequence encoding the N-terminal segment (Met1-Arg339) of the Influenza A Virus hemagglutinin (A/Vietnam/UT31413II/2008(H5N1)) (ACB70702.1), termed as HA1, was fused with a C-terminal polyhistidine tag.

Species H5N1

Source Human Cells

ProteinLength Met1-Arg339

Description Hemagglutinin (HA) is a single-pass type I integral membrane glycoprotein from the influenza virus, and comprises over 80% of the envelope proteins present in the virus particle. The HA is a trimer with a receptor binding pocket on the globular head of each monomer. In natural infection, inactive HA is matured into HA1 and HA2 outside the cell by one or more trypsin-like, arginine-specific endoprotease secreted by the bronchial epithelial cells. Binding of HA to sialic acid-containing receptors on the surface of its target cell brings about the attachment of the virus particle to the cell and forms an endosome. Low pH in endosomes induce an irreversible conformational change in HA2, releasing the hydrophobic portion "fusion peptide". After which, virus penetrates the cell and pours its contents including the RNA genome into the cytoplasm mediated by fusion of the endocytosed virus particle's own membrane and the endosomal membrane. Hemagglutinin plays a major role in the determination of host range restriction and virulence.

 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 from sterile PBS, pH7.4.
Molecular Mass	The secreted recombinant HA1 subunit of influenza A H5N1 HA (A/Vietnam/UT31413 II/2008(H5N1)) comprises 334 amino acids and has a predicted molecular mass of 37.8 kDa. It migrates as an approximately 48-57 kDa band in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 eu per µg of the protein as determined by the LAL method.
Purity	>95 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70°C
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	Hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name	HA?hemagglutinin [?Influenza A virus (A/goose/Guangdong/1/1996(H5N1))]
Official Symbol	HA
Synonyms	HA; hemagglutinin; HA1; HA2
Gene ID	3654620
Protein Refseq	YP_308669
UniProt ID	Q9Q0U6

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Chromosome
Location

segment: segment 4

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