Active Recombinant Influenza A Virus H7N7 HA, His-tagged

Cat. No. H7N7-22I **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the extracellular domain of Influenza A virus (A/Netherlands/219/03 (H7N7)) (AAR02640.1) hemagglutinin (Met 8 - Phe 544) (Native, HA1+HA2) was expressed, fused with a polyhistidine tag at the C-terminus.
Species	H7N7
Source	Insect Cells
ProteinLength	8-544 a.a.
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. 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 a 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. HA is cleaved by tryptase clara which is restricted to lungs, and thus bud into lumen of lungs and are therefore usually pneumotropic. However, HAs of H5 and H7 pantropic avian viruses subtypes can be cleaved by furin

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

	and subtilisin-type enzymes, allowing the virus to grow in other organs than lungs.
Predicted N Terminal	Asp 26
Form	Lyophilized from sterile PBS, pH 7.4
Bio-activity	Measured in hemagglutination test using 1% chicken erythrocyte. The HA titer is 0.3-1.5 μg/ml for 1% CRBC.
Molecular Mass	The secreted recombinant hemagglutinin of influenza A virus (A/Netherlands/219/03 (H7N7)) comprises 530 amino acids and has a predicted molecular mass of 59kDa as estimated in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 eu per μg of the protein as determined by the lal
Purity	>87% as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Storage	Store it under sterile conditions at -70℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

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