Recombinant Influenza A virus H7N9 HA1, His-tagged

Cat. No. H7N9-07I **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the Influenza A virus (A/Shanghai/1/2013(H7N9)), termed as HA1, Hemagglutinin (Met1-Gly338) was expressed with a C-terminal polyhistidine tag.
Species	H7N9
Source	Human Cells
ProteinLength	1-338 a.a.
Description	This new H7N9 virus is an avian (bird) influenza (flu) virus. Influenza (flu) is a respiratory infection in mammals and birds. The virus is divided into three main types (Influenza A, Influenza B, and Influenza C), which are distinguished by differences in two major internal proteins (hemagglutinin (HA) and neuraminidase (NA). Influenza A is further divided into subtypes based on differences in the membrane proteins hemagglutinin (HA) and neuraminidase (NA), which are the most important targets for the immune system. The notation HhNn is used to refer to the subtype comprising the hth discovered Hemagglutinin (HA) protein and the nth discovered neuraminidase (NA) protein. The influenza viral Hemagglutinin (HA) protein is a homo trimer with a receptor binding pocket on the globular head of each monomer. 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

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	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 conformational change necessary for fusion and hence viral infectivity.
Predicted N Terminal	Asp 19
Form	Lyophilized from sterile PBS, pH 7.4, 5% trehalose, 5% mannitol.
Molecular Mass	The recombinant HA1 subunit of Influenza A virus (A/Shanghai/1/2013(H7N9)) hemagglutin comprises 331 amino acids and has a predicted molecular mass of 36.3 kDa. The apparent molecular mass of the protein is approximately 42-47 kDa in SDS-PAGE under reducing conditions.
AA Sequence	DKICLGHHAV SNGTKVNTLT ERGVEVVNAT ETVERTNIPR ICSKGKRTVD LGQCGLLGTI TGPPQCDQFL EFSADLIIER REGSDVCYPG KFVNEEALRQ ILRESGGIDK EAMGFTYSGI RTNGATSSCR RSGSSFYAEM KWLLSNTDNA AFPQMTKSYK NTRKNPALIV WGIHHSGSTA EQTKLYGSGN KLVTVGSSNY QQSFVPSPGA RTQVNGQSGR IDFHWLMLNP NDTVTFSFNG AFIAPDRASF LRGKSMGIQS GVQVDADCEG DCYYSGGTII SNLPFQNIDS RAVGKCPRYV KQRSLLLATG MKNVPEIPKG AHHHHHHHHH H
Endotoxin	< 1.0 eu per μg of the protein as determined by the lal
Purity	>95 % 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.

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