Recombinant H9N1(A/duck/NZL/76/1984) Hemagglutinin Protein, His-tagged

Cat. No. HA-418H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant H9N1(A/duck/NZL/76/1984) hemagglutinin (Q20PC1) (Met1-Arg388), termed as HA1, was expressed with a polyhistidine tag at the C-terminus.
Species	H9N1
Source	HEK293
ProteinLength	Met1-Arg388
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 conformational change necessary for fusion and hence viral infectivity.

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Predicted N Terminal	Asp 19
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 %- 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant HA1 subunit of the Influenza A virus hemagglutinin consists of 331 amino acids and predicts a molecular mass of 37 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

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