Influenza A H5N1 (A/whooper swan/Mongolia/244/2005) Hemagglutinin / HA Protein (His Tag)

Catalog Number: 11709-V08H

**General Information**

**Gene Name Synonym:**

HA

**Protein Construction:**

A DNA sequence encoding the extracellular domain (Met 1-Gln 531) of the influenza hemagglutinin (A/whooper swan/Mongolia/244/2005 (H5N1) (ACZ36888.1), (HA+HA2, uncleaved, cleavage site mutated (RRRKR-TETR)) was expressed, fused with a C-terminal polyhistidine tag.

**Source:** H5N1

**Expression Host:** HEK293 Cells

**QC Testing**

**Purity:** > 97 % as determined by SDS-PAGE

**Endotoxin:** < 1.0 EU per μg of the protein as determined by the LAL method

**Stability:** Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Asp 17

**Molecular Mass:**

The secreted recombinant influenza A H5N1 HA (A/whooper swan/Mongolia/244/2005 (H5N1)) comprises 524 amino acids and has a predicted molecular mass of 59.7 kDa. As a result of glycosylation, it migrates as an approximately 65-75 kDa band in SDS-PAGE under reducing conditions.

**Formulation:**

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

**Usage Guide**

**Storage:**

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

**Reconstitution:**

Detailed reconstitution instructions are sent along with the products.

**SDS-PAGE:**

**Protein Description**

The influenza viral Hemagglutinin (HA) protein is a homo trimer with a receptor binding pocket 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.

**References**


**Contact Us**

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