

# H5N1 HA (His Tag) recombinant protein



Catalog Number: 503577

## General Information

### Protein Construction

A DNA sequence encoding the Influenza A virus (A/chicken/VietNam/NCVD-016/2008(H5N1)) hemagglutinin (ACO07033.1) (Met1-Gln532) with cleavage site mutated (RRRK ?TET, HA1+HA2,uncleaved) was expressed with a C-terminal polyhistidine tag.

### Organism

H5N1

### Expression Host

Baculovirus-Insect Cells

### QC Testing

#### Activity

1. Measured by its ability to bind with Neu5Aca2-3Galb1-4GlcNAcb-PAA-biotin (01-077) using the Octet RED System.
2. Measured by its ability to agglutinate guinea pig red blood cells. HA titer is 4-16 ng/mL for 1% GRBC.

#### Purity

> 95 % as determined by SDS-PAGE

#### Endotoxin

< 1.0 EU per  $\mu\text{g}$  of the protein as determined by the LAL method

#### Stability

Samples are stable for up to twelve months from date of receipt at  $-70^{\circ}\text{C}$

#### Predicted N terminal

Asp 17

### Molecular Mass

The recombinant hemagglutinin of Influenza A virus (A/chicken/VietNam/NCVD-016/2008(H5N1)) comprises 526 amino acids and has a predicted molecular mass of 59.9 kDa. The apparent molecular mass of the protein is approximately 62.1 kDa in SDS-PAGE under reducing conditions.

### Formulation

Lyophilized from sterile 20 mM Tris, 500 mM NaCl, 10 % glycerol, pH 8.0.

1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

### Usage Guide

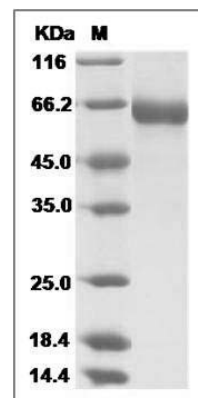
#### Storage

Store it under sterile conditions at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$ . It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

#### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

#### SDS-PAGE



Influenza A H5N1  
(A/chicken/VietNam/NCVD-016/2008)  
Hemagglutinin / HA Protein (His Tag) SDS-PAGE