

# H1N1 HA (His Tag) recombinant protein



Catalog Number: 504255

## General Information

### Protein Construction

A DNA sequence encoding the extracellular domain of Influenza A virus (A/California/04/2009 (H1N1)) (ACP41105.1) hemagglutinin (Met 1-Gln 529) (Native, HA1+HA2, uncleaved) was fused with a polyhistidine tag at the C-terminus.

### Organism

H1N1

### Expression Host

Baculovirus-Insect Cells

## QC Testing

### Activity

Measured by its ability to agglutinate human red blood cells.

HA titer is 0.5-2  $\mu\text{g}/\text{mL}$  for 1% HRBC.

### Purity

> 97 % 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 18

### Molecular Mass

The secreted recombinant hemagglutinin of Influenza A virus (A/California/04/2009 (H1N1)) comprises 523 amino acids with the predicted molecular mass of 59 kDa as estimated in SDS-PAGE under reducing conditions.

### Formulation

Lyophilized from sterile 50mM Tris, 100mM NaCl, 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

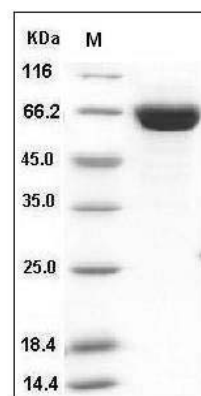
### Storage

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 H1N1 (A/California/04/2009)  
Hemagglutinin / HA Protein (His Tag) SDS-PAGE