

## General Information

### Protein Construction

A DNA sequence encoding the Influenza A virus (A/Shanghai/1/2013(H7N9)) hemagglutinin (Met1-Val524) was expressed with a C-terminal polyhistidine tag.

### Organism

H7N9

### Expression Host

Baculovirus-Insect Cells

## QC Testing

### Activity

1. Measured by its ability to agglutinate guinea pig red blood cells. HA titer is 0.1-0.5  $\mu\text{g}/\text{mL}$  for 1% GRBC. It also agglutinates chick red blood cells.
2. Measured by its ability to bind with Neu5Aca2-3Galb1-4GlcNAcb-PAA-biotin (01-077) using the Octet RED System.

### 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 19

### Molecular Mass

The recombinant hemagglutinin of Influenza A virus (A/Shanghai/1/2013(H7N9)) comprises 517 amino acids and has a predicted molecular mass of 57.7 kDa. The apparent molecular mass of the protein is approximately 55-59 kDa in SDS-PAGE under reducing conditions.

### Formulation

Lyophilized from sterile 20mM Tris, 500mM NaCl, 10% glycerol, pH 7.4.

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

## Usage Guide

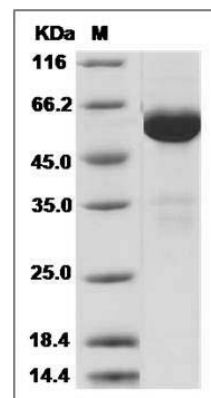
### Storage

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 H7N9 (A/Shanghai/1/2013)  
Hemagglutinin / HA Protein (His Tag) SDS-PAGE