H5N1 HA (His Tag) recombinant protein

Catalog Number: 504004

General Information

Protein Construction

A DNA sequence encoding the Influenza A virus (A/barnswallow/HongKong/D10-1161/2010(H5N1)) hemagglutinin (AGC13463.1) (Met1-Gln531) with cleavage site mutated (RRRRK ?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 2-8 ng/mL for 1% GRBC.

Purity

> 95 % 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℃

Predicted N terminal

Asp 17

Molecular Mass

The recombinant hemagglutinin of Influenza A virus (A/barnswallow/HongKong/D10-1161/2010(H5N1)) comprises 524 amino acids and has a predicted molecular mass of 59.8 kDa. The apparent molecular mass of the protein is approximately 58.3 kDa in SDS-PAGE under reducing conditions.

Formulation

Lyophilized from sterile 20 mM Tris, 500 mM 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

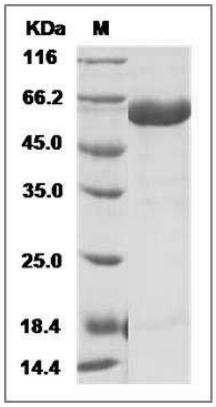
Storage

Store it under sterile conditions at -20℃ to -80℃. 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/barnswallow/HongKong/D10-1161/2010) Hemagglutinin Protein (HA1 Subunit) (His Tag) SDS-PAGE