

Synonym

Hemagglutinin/HA (Influenza Virus)

Source

Influenza B [Phuket/3073/2013 (B/Yamagata lineage)] HA Protein, His Tag (HAE-V52H4) is expressed from human 293 cells (HEK293). It contains AA Asp 16 - Ser 558 (Accession # EPI529345, GISAID).  
Predicted N-terminus: Asp 16

Molecular Characterization

Hemagglutinin/HA (Influenza Virus)(Asp 16 - Ser 558) EPI529345	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.  
The protein has a calculated MW of 64.1 kDa. The protein migrates as 80-100 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in 0.1 M Sodium citrate, pH5.5 with trehalose as protectant.  
Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.  
*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

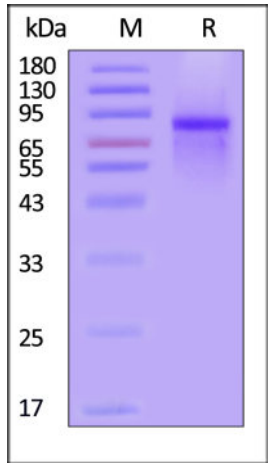
Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.  
*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



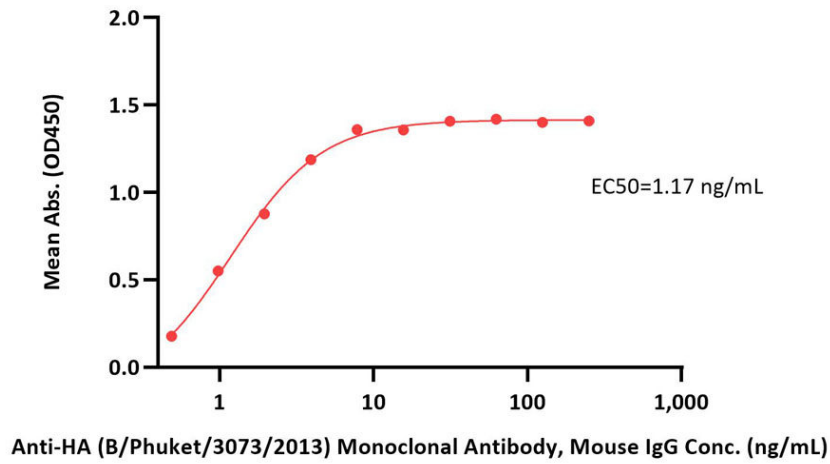
Influenza B [Phuket/3073/2013 (B/Yamagata lineage)] HA Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA





Influenza B [Phuket/3073/2013 (B/Yamagata lineage)] HA Protein, His Tag ELISA  
0.1 µg of Influenza B [Phuket/3073/2013 (B/Yamagata lineage)] HA Protein, His Tag per well



Immobilized Influenza B [Phuket/3073/2013 (B/Yamagata lineage)] HA Protein, His Tag (Cat. No. HAE-V52H4) at 1 µg/mL (100 µL/well) can bind Anti-HA (B/Phuket/3073/2013) Monoclonal Antibody, Mouse IgG with a linear range of 0.5-63 ng/mL (QC tested).

Background

Neuraminidase (NA) and hemagglutinin (HA) are major membrane glycoproteins found on the surface of influenza virus. Hemagglutinin binds to the sialic acid-containing receptors on the surface of host cells during initial infection and at the end of an infectious cycle. Hemagglutinin also plays a major role in the determination of host range restriction and virulence. As a class I viral fusion protein, hemagglutinin is responsible for penetration of the virus into the cell cytoplasm by mediating the fusion of the membrane of the endocytosed virus particle with the endosomal membrane.

