Influenza A [A/Shanghai/2/2013(H7N9)] Hemagglutinin (HA) Protein, His Tag (MALS verified)

Catalog # HA9-V5227

Synonym

HA,Hemagglutinin

Source

Influenza A [A/Shanghai/2/2013(H7N9)] HA, His Tag(HA9-V5227) is expressed from human 293 cells (HEK293). It contains AA Asp 19 - Gly 338, Leu 341 - Asp 523 (Accession # R4NN21-1).
Predicted N-terminus: Asp 19

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 56.7 kDa. The protein migrates as 63-75 kDa under reducing (R) condition (SDS-PAGE).

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 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

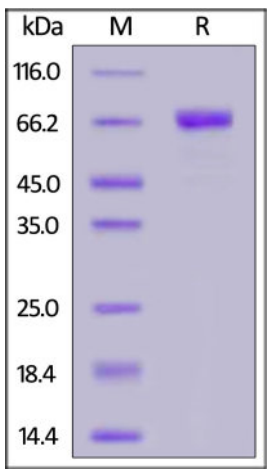
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

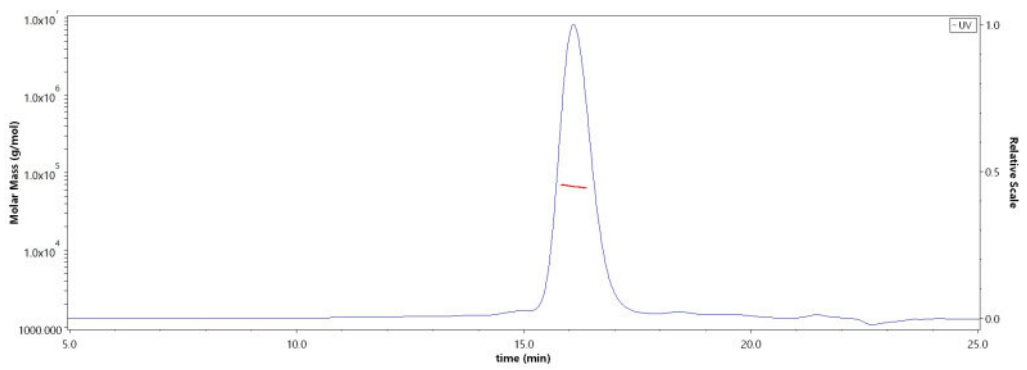
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



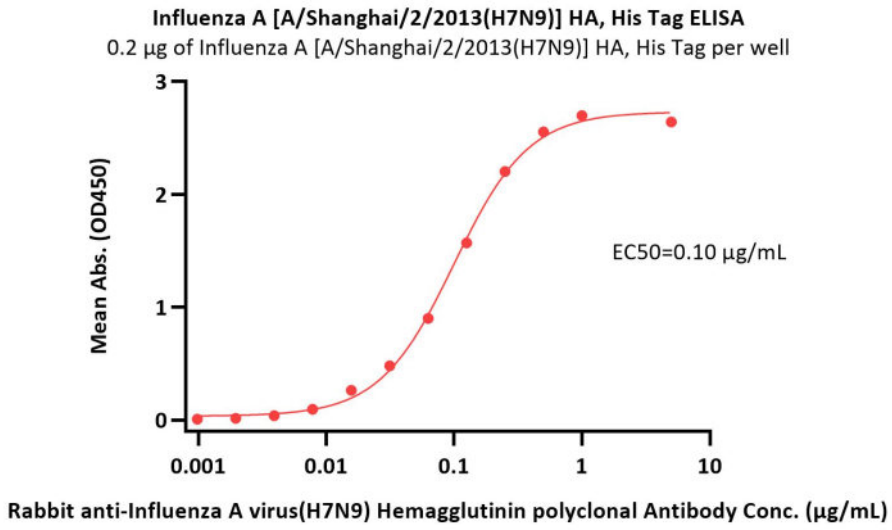
Influenza A [A/Shanghai/2/2013(H7N9)] HA, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS



The purity of Influenza A [A/Shanghai/2/2013(H7N9)] HA, His Tag (Cat. No. HA9-V5227) is more than 90% and the molecular weight of this protein is around 57-72 kDa verified by SEC-MALS.
Report

Bioactivity-ELISA



Immobilized Influenza A [A/Shanghai/2/2013(H7N9)] HA, His Tag (Cat. No. HA9-V5227) at 2 μg/mL (100 μL/well) can bind Rabbit anti-Influenza A virus(H7N9) Hemagglutinin polyclonal Antibody with a linear range of 0.001-0.25 μg/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.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.