Biotinylated Influenza A [A/Guinea fowl/Hong Kong/WF10/99(H9N2)] Hemagglutinin (HA) Protein, Avitag™,His Tag

Catalog # HA1-V82E1

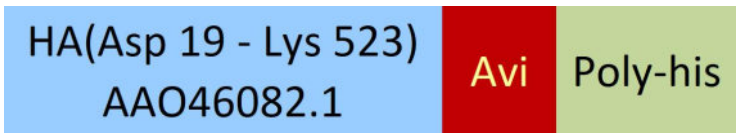
Synonym

HA,Hemagglutinin

Source

Biotinylated Influenza A [A/Guinea fowl/Hong Kong/WF10/99(H9N2)] HA, Avitag,His Tag (HA1-V82E1) is expressed from human 293 cells (HEK293). It contains AA Asp 19 - Lys 523 (Accession # AAO46082.1).
Predicted N-terminus: Asp 19

Molecular Characterization



This protein carries an Avi tag (Avitag™) at the C-terminus, followed by a polyhistidine tag.

The protein has a calculated MW of 60.0 kDa. The protein migrates as 66-70 kDa under reducing (R) condition (SDS-PAGE).

Biotinylation

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Biotin:Protein Ratio

The biotin to protein ratio is ***0.5-1*** as determined by the HABA assay.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

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.

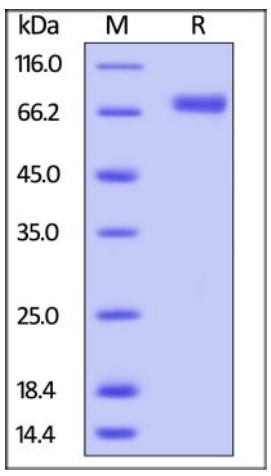
Storage

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

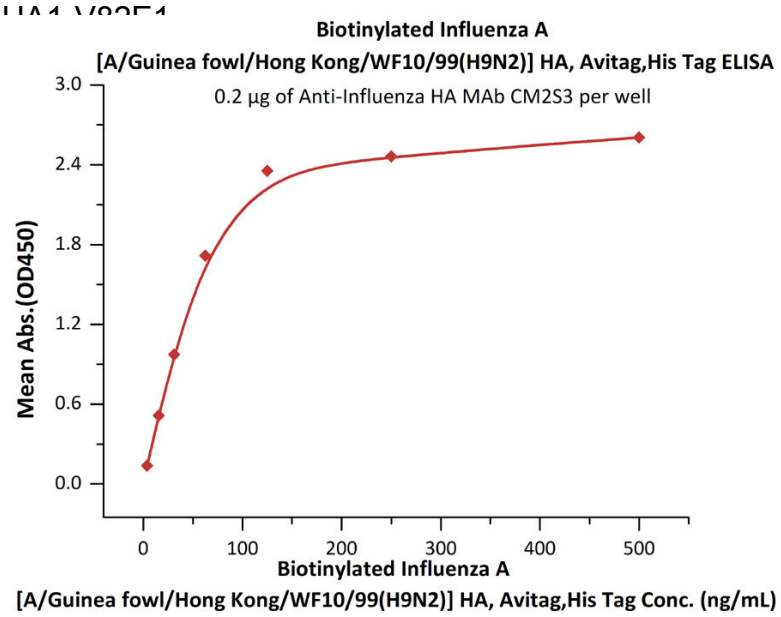


Biotinylated Influenza A [A/Guinea fowl/Hong Kong/WF10/99(H9N2)] HA, Avitag,His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA

Biotinylated Influenza A [A/Guinea fowl/Hong Kong/WF10/99(H9N2)] Hemagglutinin (HA) Protein, Avitag™,His Tag

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Immobilized Anti-Influenza HA MAb CM2S3 at 2 μg/mL (100 μL/well) can bind Biotinylated Influenza A [A/Guinea fowl/Hong Kong/WF10/99(H9N2)] HA, Avitag,His Tag (Cat. No. HA1-V82E1) with a linear range of 2-63 ng/mL (QC tested).

Background

Influenza, commonly known as "the flu", is an infectious disease of birds and mammals caused by RNA viruses of the family Orthomyxoviridae, the influenza viruses. The virus is divided into three main types (Influenzavirus A, Influenzavirus B, and Influenzavirus C), which are distinguished by differences in two major internal proteins (hemagglutinin (HA) and neuraminidase (NA), which are the most important targets for the immune system. The type A viruses are the most virulent human pathogens among the three influenza types and cause the most severe disease. The serotypes that have been confirmed in humans, ordered by the number of known human pandemic deaths, are: H1N1, H2N2, H3N2, H5N1, H7N7, H1N2, H9N2, H7N2, H7N3, H10N7, H7N9. H7N9 is a serotype of the species Influenzavirus A (avian influenza virus or bird flu virus). H7 normally circulates amongst avian populations with some variants known to occasionally infect humans. An H7N9 virus was first reported to have infected humans in 2013 in China.

References

(1) Suarez D.L.,et al., 1998, J. Virol. 72:6678-6688

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