



Synonym

APOH,Apo-H,B2GPI,Beta(2)GPI,B2G1

Source

Human Apolipoprotein H Protein, His Tag(APH-H52H3) is expressed from human 293 cells (HEK293). It contains AA Gly 20 - Cys 345 (Accession # [P02749](#)).

Predicted N-terminus: Gly 20

Molecular Characterization

APOH(Gly 20 - Cys 345)
P02749 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 38.1 kDa. The protein migrates as 55-65 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.

Purity

>95% as determined by SDS-PAGE.

>95% 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

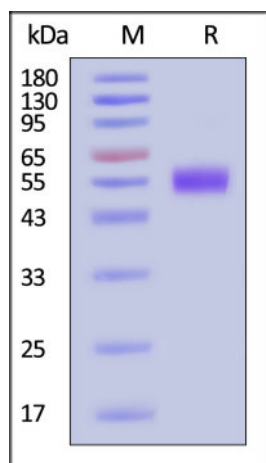
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

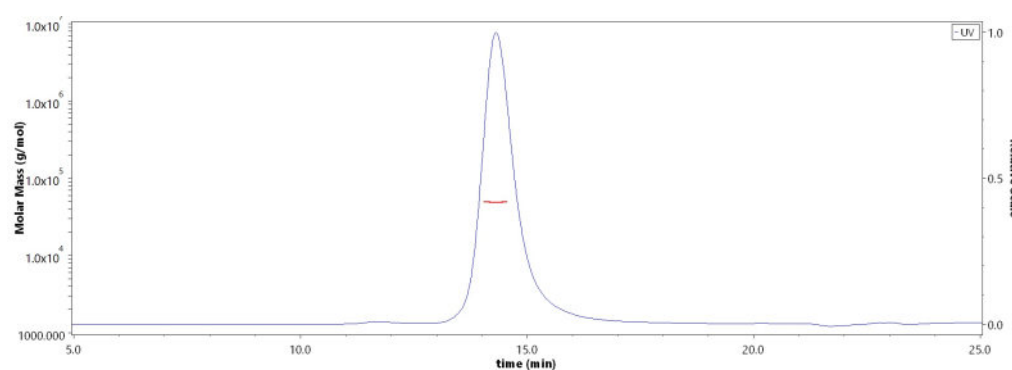
SDS-PAGE



Human Apolipoprotein H 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 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA

SEC-MALS

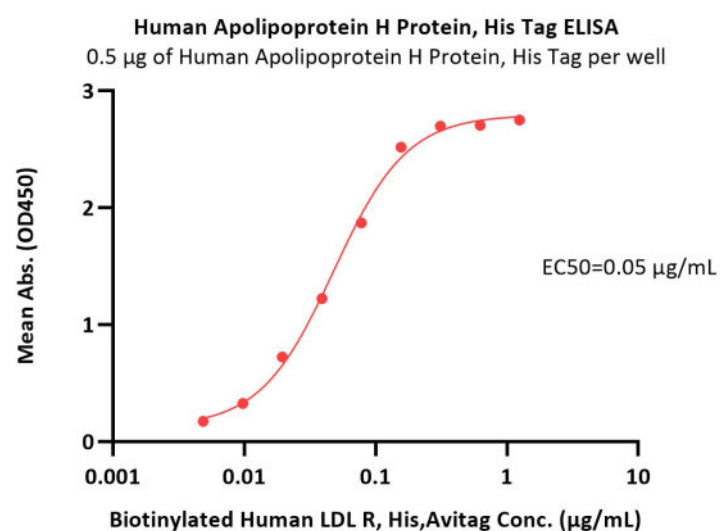


The purity of Human Apolipoprotein H Protein, His Tag (Cat. No. APH-H52H3) is more than 95% and the molecular weight of this protein is around 40-55 kDa verified by SEC-MALS.

[Report](#)

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Immobilized Human Apolipoprotein H Protein, His Tag (Cat. No. APH-H52H3) at 5 µg/mL (100 µL/well) can bind Biotinylated Human LDL R, His, Avitag (Cat. No. LDR-H82E7) with a linear range of 0.005-0.156 µg/mL (QC tested).

Background

Autoantibodies directed to negatively charged phospholipids, in particular cardiolipin, have been detected in the serum of patients with systemic lupus erythematosus (SLE) and antiphospholipid syndrome (APS). APS is characterised by venous and arterial thrombosis, recurrent spontaneous abortions and thrombocytopenia. It is now known that a serum cofactor, β 2-glycoprotein 1, is required for the binding of cardiolipin by autoantibodies in the sera of patients with APS. By contrast, anticardiolipin antibodies from patients with infectious diseases (in particular, syphilis) do not require this cofactor.

β 2-Glycoprotein 1, also known as apolipoprotein H, is a relatively abundant serum protein (present at a concentration of about 0.2 mg/ml) that may play a role in coagulation. It has been shown to bind to platelets, mitochondria and negatively charged substances such as heparin, DNA, dextran sulphate and negatively charged phospholipids.

Clinical and Translational Updates

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