

Synonym

Apolipoprotein A-II, APOA2, Apo-AII, ApoA-II, Apolipoprotein A2

Source

Human Apolipoprotein A-II, His Tag (APA-H51H6) is expressed from E. coli cells. It contains AA Ala 19 - Gln 100 (Accession # [P02652-1](#)).

Predicted N-terminus: Met

Molecular Characterization

Apolipoprotein A-II(Ala 19 - Gln 100) P02652-1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 11.3 kDa. The protein migrates as 11 kDa and 13 kDa under reducing (R) condition (SDS-PAGE).

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

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.

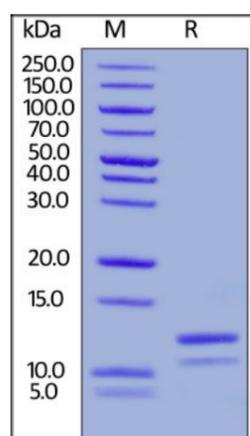
Storage

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 A-II, 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%.

Background

Apolipoprotein A-II (APO-A2) stabilize HDL (high density lipoprotein) structure by its association with lipids, and affect the HDL metabolism. It is produced by the liver and is involved in cholesteryl ester formation and cholesterol transport from tissues to the liver. Recent studies have established the interaction between APOA2 -256T>C polymorphism and dietary saturated fatty acids intake in relation to obesity on healthy individuals. Significant interaction between APOA2-saturated fatty acids intake and body mass index (BMI). The result of this study confirmed the interaction between APOA2 -256T>C polymorphism and SFAs intake with BMI in type 2 diabetic patients.

Clinical and Translational Updates

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