

Recombinant Human Apolipoprotein A-IV/APOA4 Protein

Catalog No.: RP01854 **Recombinant**

Sequence Information

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human | 337 | P06727 |

Tags

C-His

Synonyms

APOA4 Apolipoprotein A-IV; Apo-AIV; ApoA-IV; Apolipoprotein A4.

Product Information

| Source | Purification |
|--------------|--------------|
| HEK293 cells | |

| Calculated MW | Observed MW |
|---------------|-------------|
| 44.22 kDa | 45-55 kDa |

Endotoxin

<0.01EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

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Background

Apolipoprotein A-IV (ApoA-IV), first discovered in rat plasma in the 1970s, is a 46 kD glycoprotein with relatively high concentrations in plasma (15–37 mg/dL). It is expressed predominantly in the mammalian small intestine (with highest expression in the duodenum), and also expressed in rodent liver at lower levels. Sensing lipid absorption in enterocytes, ApoA-IV is synthesized and packaged with lipids and other apolipoproteins into chylomicrons and secreted through the lymphatic system into the blood. Once there, as a member of exchangeable apolipoproteins, ApoA-IV dissociates from chylomicrons and transfers to HDL (high density lipoprotein) particles or circulates in lipid-free form. ApoA-IV may protect against atherosclerosis, mediate reverse cholesterol transport, act as an anti-inflammatory agent and modulate intestinal lipid absorption.

Basic Information

Description

Recombinant Human Apolipoprotein A-IV/APOA4 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu21-Ser396) of Human Apolipoprotein A-IV/APOA4 (Accession #NP_000473.2) fused with a His tag at the C-terminus.

Bio-Activity

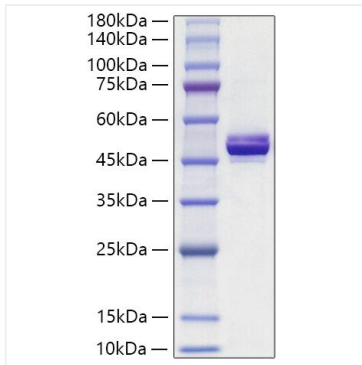
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Apolipoprotein A-IV/APOA4 Protein was determined by SDS-PAGE with Coomassie Blue, showing bands at 45-55 kDa.