

Recombinant Human ApolipoproteinA-IV/APOA4 Protein

Catalog No.: RP01854

Sequence Information

Species **Gene ID**
Human 337

Swiss Prot **Tags**
P06727 C-His

Synonyms

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

Product Information

Source **Purification**
HEK293 cells ≥ 90% as determined by SDS-PAGE.

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

Endotoxin

< 0.01 EU/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 free-thaw cycles.

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.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

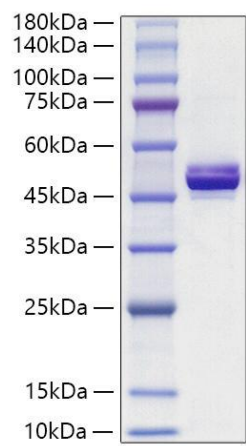
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Validation Data



Recombinant Human ApolipoproteinA-IV/APOA4 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.