

# Recombinant Human ApolipoproteinA-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

≥ 90% as determined by SDS-

PAGE.

Calculated MW Observed MW

44.22 kDa 45-55 kDa

## Endotoxin

 $< 0.01 \; \text{EU/}\mu\text{g}$  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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## **Contact**

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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) ofHuman Apolipoprotein A-IV/APOA4 (Accession #NP\_000473.2) fused with a His tag at the C-terminus.

## **Bio-Activity**

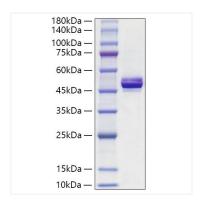
#### **Storage**

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