

Native Human Apolipoprotein AIV

Cat. No. ApoA4-68H Lot. No. (See product label)

SPECIFICATION

Species Human

Source Human Plasma

Description

Apolipoprotein AIV (Apo AIV) is a glycoprotein synthesized by the human intestine. Synthesis appears to be stimulated by the absorption of high density lipoproteins that are rich in triglycerides rather than by the uptake or re-esterification of fatty acids. The formation of chylomicrons acts as a signal for the induction of Apo AIV synthesis a signal enhanced by a factor from the ileum, probably PYY. Apo AIV alters the activity of the key enzymes (LPL and LCAT) of lipoprotein metabolism and cholesterol efflux from extra hepatic tissues. Also, since stimulation of intestinal synthesis and secretion by lipid absorption are rapid, Apo AIV likely plays a role in the short-term regulation of food intake. Other evidence suggests involvement in the long-term regulation of both food intake and body weight. Chronic ingestion of high-fat diet blunts the intestinal Apo AIV response to lipid feeding and, consequently, may explain why the chronic ingestion of a high-fat diet predisposes both animals and humans to obesity. It is required for efficient activation of lipoprotein lipase by ApoC-II and is a potent activator of LCAT. Apo AIV is an amphipathic protein that can emulsify lipids and has been linked to protective roles against cardiovascular disease and obesity.

Form Frozen

Molecular Mass 46 kDa

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Purity	Purity by SDS-PAGE: ≥85%
Usage	For Research Use Only! Not For Use in Humans.
Notes	Centrifuge the vial prior to opening
Storage	-80°C
Storage Buffer	Frozen in 10 mM NH ₄ HCO ₃ , pH 8.2
Shipping	Dry Ice
GENE INFORMATION	
Gene Name	APOA4 apolipoprotein A-IV [Homo sapiens]
Official Symbol	ApoA4
Synonyms	APOA4; apolipoprotein A-IV; apo-AIV; apoA-IV; apolipoprotein A4; MGC142154; MGC142156;
Gene ID	337
mRNA Refseq	NM_000482
Protein Refseq	NP_000473
MIM	107690
UniProt ID	P06727

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Chromosome Location	11q23-qter
Pathway	Amyloids, organism-specific biosystem; Chylomicron-mediated lipid transport, organism-specific biosystem; Disease, organism-specific biosystem; Fat digestion and absorption, organism-specific biosystem; Fat digestion and absorption, conserved biosystem; Lipid digestion, mobilization, and transport, organism-specific biosystem; Lipoprotein metabolism, organism-specific biosystem;
Function	antioxidant activity; cholesterol transporter activity; copper ion binding; contributes_to eukaryotic cell surface binding; lipid binding; lipid transporter activity; phosphatidylcholine binding; phosphatidylcholine-sterol O-acyltransferase activator activity; protein homodimerization activity;

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