Native Human APOA1 protein

Cat. No. APOA1-256H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Human APOA1 was purified from Human Plasma HDL.
Species	Human
Source	Human Plasma
Description	Apolipoprotein AI promotes cholesterol efflux from tissues to the liver for excretion. Apolipoprotein AI is the major protein component of high density lipoprotein (HDL) in the plasma. Synthesized in the liver and small intestine, it consists of two identical chains of 77aa; an 18aa signal peptide is removed co-translationally and a 6 amino acid propeptide is cleaved post-translationally. Apolipoprotein AI is a cofactor for lecithin cholesterolacyltransferase (LCAT) which is responsible for the formation of most plasma cholesteryl esters. Defects in the Apolipoprotein AI gene are associated with HDL deficiency and Tangier disease.
Form	Supplied as a liquid in 20mM Tris-HCl, pH 7.4, 0.15M sodium chloride, 0.5mM EDTA, 0.02% sodium azide.
Applications	ELISA (EL/EIA). Suitable for use in ELISA. Other applications not tested.
Notes	Small volumes of Apolipoprotein A-I lipoprotein may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice.

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Storage	May be stored at 4 centigrade for short-term only. For long-term storage, aliquot and store at -20 centigrade. Aliquots are stable for at least 6 months at -20 centigrade. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

GENE INFORMATION

Gene Name	APOA1 apolipoprotein A-I [Homo sapiens]
Official Symbol	APOA1
Synonyms	APOA1; apolipoprotein A-I; apo-AI; apoA-I; MGC117399;
Gene ID	335
mRNA Refseq	NM_000039
Protein Refseq	NP_000030
MIM	107680
UniProt ID	P02647
Chromosome Location	11q23-q24
Pathway	ABC-family proteins mediated transport, organism-specific biosystem; ABCA transporters in lipid homeostasis, organism-specific biosystem; African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Amyloids, organism-specific biosystem; Chylomicron-mediated lipid transport, organism-specific biosystem; Disease, organism-specific biosystem;

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Function	apolipoprotein A-I receptor binding; apolipoprotein receptor binding; beta-amyloid binding; cholesterol binding; contributes_to cholesterol transporter activity; cholesterol transporter activity; enzyme binding; high-density lipoprotein particle binding; high-density lipoprotein particle receptor binding; identical protein binding; lipid transporter activity; phosphatidylcholine-sterol O-acyltransferase activator activity; phospholipid binding; protein binding;

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