Native Human APOA1

Cat. No. APOA1-8344H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Human APOA1 was purified from Human Serum.
Species	Human
Source	Human Serum
Description	Native ApoA-I is the principal protein component of high density lipoprotein (HDL). ApoA-I gives HDL its ability to transport cholesterol from the periphery to the liver, and thereby prevent cholesterol deposition in the arterial wall. This is why HDL is known as "good cholesterol." Biochemically, ApoA-I contains an extra cysteine bridge, causing it to exist as a homodimer or as a heterodimer with ApoA-II. However, the enhanced cardioprotective activity of this mutant (which likely depends on cholesterol efflux) cannot easily be replicated by other cysteine mutants. ApoA-I has recently been shown to be a better indicator of cardiovascular events than low density lipoprotein, revealing the powerful role played by this protein. Availability of the recombinant protein will allow investigators to further elucidate the function of ApoA-I and investigate potential therapeutic applications. Defects in the gene encoding it are associated with HDL deficiencies, including Tangier disease, and with systemic non-neuropathic amyloidosis. In one study, a decrease in ApoA1 levels was detected in schizophrenia patients" CSF, brain and peripheral tissues.
Form	The native human ApoA-I is formulated in 10 mM NH4HCO3, pH 7.4
Storage	For long-term storage, aliquot into working volumes and store at -20°C in a manual

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	defrost freezer. Avoid Repeated Freeze Thaw Cycles.

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;
Function	apolipoprotein A-I receptor binding; apolipoprotein receptor binding; beta-amyloid binding; cholesterol binding; contributes_to cholesterol transporter activity; cholesterol

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	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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