

Recombinant Human Apolipoprotein A-I, His-tagged

Cat. No. APOA1-6916H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human APOA1, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography. MW: 30.3 kDa.
Species	Human
Source	E.coli
ProteinLength	25-267aa
Description	APOA1 is a human protein with a specific role in lipid metabolism. It is the major protein component of high density lipoprotein (HDL) in plasma. This protein promotes cholesterol efflux from tissues to the liver for excretion. And it is a cofactor for lecithin cholesterolacyltransferase (LCAT) which is responsible for the formation of most plasma cholesteryl esters. Defects in the ApoA-1 gene are associated with HDL deficiency including Tangier disease.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing, 10% glycerol.
Molecular Mass	30.3 kDa (264aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MDEPPQSPWD RVKDLATVYV DVLKDSGRDY VSQFEGSALG KQLNLKLLDN WDSVTSTFSK LREQLG PVTQ EFWDNLEKET EGLRQEMSKD LEEVKAKVQP YLDDFQKKWQ EEMELYRQKV EPLRAELQEG ARQKLHELQE KLSPLGEEMR DRARAHVDAL RTHLAPYSDE LRQRLAARLE ALKENG GARL AEYHAKATEH LSTLSEKAKP ALEDLRQGLL PVLESFKVSF

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	LSALEEYTKK LNTQ
Purity	>95% by SDS-PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

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

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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 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;