Recombinant Mouse Apoa1, His-tagged

Cat. No. Apoa1-38M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Apoa1, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques
Species	Mouse
Source	E.coli
Description	Apoa1 also known as Apolipoprotein A-I, 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 Apoa1 are associated with HDL deficiency including Tangier disease.
Form	Liquid, In Phosphate buffered saline (pH7.4) containing 20% glycerol, 1mM DTT
Molecular Mass	30.3kDa (263aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSDEPQSQW DKVKDFANVY VDAVKDSGRD YVSQFESSSL GQQLNLNLLE NWDTLGSTVS QLQERLGPLT RDFWDNLEKE TDWVRQEMNK DLEEVKQKVQ PYLDEFQKKW KEDVELYRQK VAPLGAELQE SARQKLQELQ GRLSPVAEEF RDRMRTHVDS LRTQLAPHSE QMRESLAQRL AELKSNPTLN EYHTRAKTHL KTLGEKARPA LEDLRHSLMP MLETLKTQVQ SVIDKASETL TAQ

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Purity	>90% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	Apoa1 apolipoprotein A-I [Mus musculus]
Official Symbol	Apoa1
Synonyms	APOA1; apolipoprotein A-I; apo-AI; apoA-I; apolipoprotein A1; Sep2; Alp-1; Ltw-1; Sep-1; Sep-2; Apoa-1; Brp-14; Lvtw-1; MGC102525;
Gene ID	11806
mRNA Refseq	NM_009692
Protein Refseq	NP_033822
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; Chylomicron-mediated lipid transport, organism-specific biosystem; Fat digestion and absorption, organism-specific biosystem; Fat digestion and absorption, conserved biosystem;
Function	apolipoprotein A-I receptor binding; apolipoprotein receptor binding; beta-amyloid binding; cholesterol binding; cholesterol transporter activity; cholesterol transporter

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	activity; enzyme binding; high-density lipoprotein particle binding; high-density lipoprotein particle receptor binding; identical protein binding; identical protein binding; lipase inhibitor activity; lipid binding; lipid transporter activity; lipid transporter activity; lipoprotein particle binding; phosphatidylcholine-sterol O-acyltransferase activator activity; phospholipid binding; phospholipid transporter activity; protein binding;

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