

## Recombinant Mouse ApoA1, His-tagged

**Cat. No.** ApoA1-38M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b> | Recombinant mouse ApoA1, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Liquid, In Phosphate buffered saline (pH7.4) containing 20% glycerol, 1mM DTT                                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | 30.3kDa (263aa) confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MGSDEPQSQW DKVKDFANVY VDAVKDSGRD<br>YVSQFESSSL GQQLNLNLL E NWDTLGSTVS QLQERLGPLT RDFWDNLEKE<br>TDWVRQEMNK DLEEVKQKVQ PYLDEFQKKW KEDVELYRQK VAPLGAELEQ<br>SARQKLQELQ GRLSPVAEEF RDRMRTHVDS LRTQLAPHSE QMRESLAQRL<br>AELKSNPTLN EYHTRAKTHL KTLGEKARPA LEDLRHSLMP MLETLKTQVQ<br>SVIDKASETL TAQ                                                                                                                      |

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|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | >90% by SDS - PAGE                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage</b>          | 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.                                                                                                                                                                                                                                                                             |
| <b>Concentration</b>    | 1mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Name</b>        | <a href="#">Apoa1 apolipoprotein A-I [ Mus musculus ]</a>                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Official Symbol</b>  | Apoa1                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>         | 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;                                                                                                                                                                                                                                                                                             |
| <b>Gene ID</b>          | <a href="#">11806</a>                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>      | <a href="#">NM_009692</a>                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Protein Refseq</b>   | <a href="#">NP_033822</a>                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Pathway</b>          | 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; |
| <b>Function</b>         | 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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