

Recombinant Mouse ApoA1 Protein, His-tagged

Cat. No. ApoA1-7166M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse ApoA1 protein with a His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	25-264
Description	This gene encodes a preproprotein that is proteolytically cleaved to yield a signal peptide and a proprotein that is subsequently processed to generate the active mature peptide. The encoded protein is the major protein component of plasma high density lipoprotein (HDL). This protein facilitates the removal of cholesterol and other fats from tissues by transporting them to the liver for excretion. This protein is a cofactor for lecithin cholesterolacyltransferase, an enzyme that catalyzes the conversion of free cholesterol to cholesteryl esters. Mutations in this gene in humans causes familial HDL deficiency, Tangier disease and familial visceral amyloidosis. Similar clinical features are exhibited by mice with mutations in this gene. This gene is clustered with three other apolipoprotein genes on chromosome 9.
Form	Liquid
Molecular Mass	30.3 kDa
AA Sequence	MGSSHHHHHHSSGLVPRGSHMGSDPEQSQWDKVKDFANVYVDAVKDSGRDYVS QFESSSLGQQLNLLNLENWDTLGSTVSQLQERLGPLTRDFWDNLEKETDWRQEM

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NKDLEEVKQKVQPYLDEFQKKWKEDVELYRQKVAPLGAELQESARQKLQELQGRL
SPVAEEFRDRMRTHVDSLRTQLAPHSEQMRESLAQRLAELKSNPTLNEYHTRAKTH
LKTLLGEKARPALEDLRHSLMPMLETLKTQVQSVIDKASETLTAQ

Purity > 90 % by SDS-PAGE

Stability Shelf life: one year from despatch.

Storage Store undiluted at 2-8 centigrade for one week or (in aliquots) at -20 to -80 centigrade for longer. Avoid repeated freezing and thawing.

Concentration 1.0 mg/mL (determined by bradford assay)

Storage Buffer In Phosphate buffered saline (pH7.4) containing 20 % glycerol, 1 mM DTT.

GENE INFORMATION

Gene Name [Apoa1 apolipoprotein A-I \[Mus musculus \(house mouse\) \]](#)

Official Symbol [Apoa1](#)

Synonyms Apoa1; apolipoprotein A-I; AI; Ap; Se; Sep; Brp-; Ltw-; Lvtw; Sep2; Alp-1; Ltw-1; Sep-1; Sep-2; Apoa-1; Brp-14; Lvtw-1; apo-AI; apoA-Iapolipoprotein A-I; apolipoprotein A1

Gene ID [11806](#)

mRNA Refseq [NM_009692](#)

Protein Refseq [NP_033822](#)

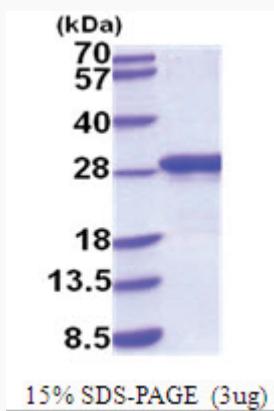
UniProt ID [Q00623](#)

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SDS-PAGE



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