

Recombinant Mouse ApoA1 Protein, MYC/DDK-tagged

Cat. No. ApoA1-631M Lot. No. (See product label)

SPECIFICATION

Product Overview Purified recombinant protein of full-length mouse apolipoprotein A-I (ApoA1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

Species Mouse

Source HEK293

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.

Molecular Mass 31.1 kDa

Purity >80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Apoa1 apolipoprotein A-I [Mus musculus (house mouse)]
Official Symbol	Apoa1
Synonyms	Apoa1; apolipoprotein A-I; Sep2; Alp-1; Ltw-1; Sep-1; Sep-2; Apoa-1; Brp-14; Lvtw-1; apo-AI; apoA-I; apolipoprotein A-I; apolipoprotein A1
Gene ID	11806
mRNA Refseq	NM_009692
Protein Refseq	NP_033822
UniProt ID	Q00623

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