

Active Recombinant Mouse Apoe Protein, His Tagged

Cat. No. Apoe-25M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse Apolipoprotein E Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Glu 19-Gln 311 (Accession # P08226). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Glu 19
Species	Mouse
Source	HEK293
ProteinLength	19-311 aa
Description	APOE is an apolipoprotein, a protein associating with lipid particles, that mainly functions in lipoprotein-mediated lipid transport between organs via the plasma and interstitial fluids. APOE is a core component of plasma lipoproteins and is involved in their production, conversion and clearance. Apolipoproteins are amphipathic molecules that interact both with lipids of the lipoprotein particle core and the aqueous environment of the plasma. As such, APOE associates with chylomicrons, chylomicron remnants, very low density lipoproteins (VLDL) and intermediate density lipoproteins (IDL) but shows a preferential binding to high-density lipoproteins (HDL). It also binds a wide range of cellular receptors including the LDL receptor/LDLR, the LDL receptor-related proteins LRP1, LRP2 and LRP8 and the very low-density lipoprotein receptor/VLDLR that mediate the cellular uptake of the APOE-containing lipoprotein particles.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

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Bio-activity	Immobilized Human LDL R, Fc Tag at 5 µg/mL (100 µL/well) can bind Mouse Apolipoprotein E Protein, His Tag with a linear range of 0.02-2.5 µg/mL.
Molecular Mass	The protein has a calculated MW of 35.9 kDa. The protein migrates as 14 kDa and 35 kDa under reducing (R) condition (SDS-PAGE).
Endotoxin	Less than 1.0 EU/µg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE. >90% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Apoe apolipoprotein E [Mus musculus (house mouse)]
Official Symbol	Apoe
Synonyms	APOE; apolipoprotein E; apo-E; AI255918;
Gene ID	11816
mRNA Refseq	NM_009696

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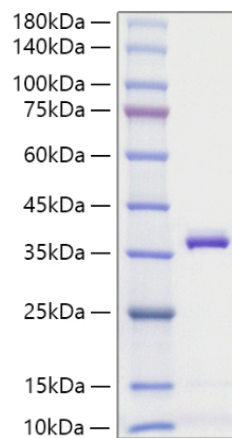
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Protein Refseq NP_033826

UniProt ID P08226

SDS-PAGE



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