Recombinant Human APOE protein

Cat. No. APOE-257H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human APOE was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	299 amino acids
Description	The protein encoded by this gene is a major apoprotein of the chylomicron. It binds to a specific liver and peripheral cell receptor, and is essential for the normal catabolism of triglyceride-rich lipoprotein constituents. This gene maps to chromosome 19 in a cluster with the related apolipoprotein C1 and C2 genes. Mutations in this gene result in familial dysbetalipoproteinemia, or type III hyperlipoproteinemia (HLP III), in which increased plasma cholesterol and triglycerides are the consequence of impaired clearance of chylomicron and VLDL remnants. Alternative splicing results in multiple transcript variants.
Form	Purified, Lyophilized
Molecular Mass	34 kDa
Purity	>90% pure (SDS-PAGE and HPLC analysis)
Notes	Small volumes of Apo E3 recombinant protein may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly

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	centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice.
Storage	Store lyophilized product at -20 centigrade. After reconstitution, aliquot and store at -20 centigrade. Avoid multiple freeze/thaw cycles.
Concentration	Lot specific (prior to lyophilization) (lot specific)

GENE INFORMATION

Gene Name	APOE apolipoprotein E [Homo sapiens]
Official Symbol	APOE
Synonyms	APOE; apolipoprotein E; AD2, Alzheimer disease 2 (APOE*E4 associated, late onset); apo-E; apolipoprotein E3; AD2; LPG; LDLCQ5; MGC1571;
Gene ID	348
mRNA Refseq	NM_000041
Protein Refseq	NP_000032
MIM	
UniProt ID	P02649
Chromosome Location	19q13.31
Pathway	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Chylomicron-mediated lipid transport, organism-specific biosystem; HDL-

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	mediated lipid transport, organism-specific biosystem; Lipid digestion, mobilization, and transport, organism-specific biosystem; Lipoprotein metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem;
Function	antioxidant activity; beta-amyloid binding; cholesterol transporter activity; heparin binding; identical protein binding; lipid binding; lipid transporter activity; lipoprotein particle binding; low-density lipoprotein particle receptor binding; low-density lipoprotein particle receptor binding; metal chelating activity; phosphatidylcholine-sterol O-acyltransferase activator activity; phospholipid binding; protein binding; protein heterodimerization activity; protein homodimerization activity; tau protein binding; very-low-density lipoprotein particle receptor binding; very-low-density lipoprotein particle receptor binding;

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