Recombinant Human APOE

Cat. No. APOE-2631H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human APOE was expressed in E. coli.
Species	Human
Source	E.coli
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	Human ApoE3 is a lyophilized protein. Recombinant ApoE3 is sterile filtered and lyophilized from 20 mM Sodium Phosphate.
Bio-activity	Test in process
Molecular Mass	Recombinant ApoE3 is a 34 kDa protein
Endotoxin	<0.1 ng/μg
Purity	≥98%

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Storage	Store at -20ºC
Reconstitution	Reconstitute in dH2O to a concentration of 0.1-1.0 mg/ml. The solution can then be diluted into other aqueous buffers and store at 4ºC for 1 week or –20ºC for future use.

GENE INFORMATION

Gene Name	APOE apolipoprotein E [Homo sapiens (human)]
Official Symbol	APOE
Synonyms	APOE; apolipoprotein E; AD2; LPG; LDLCQ5; MGC1571; apolipoprotein E3; Apo-E
Gene ID	348
mRNA Refseq	NM_000041
Protein Refseq	NP_000032
MIM	107741
UniProt ID	P02649
Chromosome Location	19q13.2
Pathway	Alzheimer's disease; Binding and Uptake of Ligands by Scavenger Receptors; Diseases associated with visual transduction
Function	antioxidant activity; beta-amyloid binding; cholesterol transporter activity

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