

## Recombinant Human APOE

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

### SPECIFICATION

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

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<b>Storage</b>	Store at -20°C
<b>Reconstitution</b>	Reconstitute in dH <sub>2</sub> O to a concentration of 0.1-1.0 mg/ml. The solution can then be diluted into other aqueous buffers and store at 4°C for 1 week or -20°C for future use.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	APOE apolipoprotein E [ Homo sapiens (human) ]
<b>Official Symbol</b>	APOE
<b>Synonyms</b>	APOE; apolipoprotein E; AD2; LPG; LDLCQ5; MGC1571; apolipoprotein E3; Apo-E
<b>Gene ID</b>	348
<b>mRNA Refseq</b>	NM_000041
<b>Protein Refseq</b>	NP_000032
<b>MIM</b>	107741
<b>UniProt ID</b>	P02649
<b>Chromosome Location</b>	19q13.2
<b>Pathway</b>	Alzheimer's disease; Binding and Uptake of Ligands by Scavenger Receptors; Diseases associated with visual transduction
<b>Function</b>	antioxidant activity; beta-amyloid binding; cholesterol transporter activity

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