

# Recombinant Human APOE

**Cat. No.** APOE-696H    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**      Recombinant human ApoE3 is a 34.0 kDa protein containing 299 amino acid residues.

**Species**                      Human

**Source**                        E.coli

**Description**

Chylomicron remnants and very low density lipoprotein (VLDL) remnants are rapidly removed from the circulation by receptor-mediated endocytosis in the liver. Apolipoprotein E, a main apoprotein of the chylomicron, binds to a specific receptor on liver cells and peripheral cells. ApoE is essential for the normal catabolism of triglyceride-rich lipoprotein constituents. The APOE gene is mapped to chromosome 19 in a cluster with APOC1 and APOC2. Defects in apolipoprotein E 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.

**AA Sequence**

MKVEQAVETE PEPELRQQTE WQSGQRWELA LGRFWDYLRW VQTLSEQVQE  
 ELLSSQVTQE LRALMDETMK ELKAYKSELE EQLTPVAEET RARLSKELQA  
 AQARLGADME DVCGRLVQYR GEVQAMLGQS TEELRVRLAS HLRKLRKRL  
 RDADDLQKRL AVYQAGAREG AERGLSAIRE RLGPLVEQGR VRAATVGS  
 LA GQPLQERAQA WGERLRARME EMGSRTDRL DEVKEQVAEV RAKLEEQAQQ  
 IRLQAEAFQA RLKSWFEPLV EDMQRQWAGL VEKVQAAVGT SAAPVPSDNH

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**Purity** Greater than 90% by SDS-PAGE gel and HPLC analyses.

## GENE INFORMATION

**Gene Name** [APOE apolipoprotein E \[ Homo sapiens \(human\) \]](#)

**Official Symbol** APOE

**Synonyms** APOE; AD2; LPG; LDLCQ5; apolipoprotein E; apo-E; apolipoprotein E3

**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; HDL-mediated lipid transport

**Function** antioxidant activity; beta-amyloid binding; cholesterol transporter activity

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