

Native Human ApoE

Cat. No. ApoE-3560H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	Human Plasma
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.
Form	Supplied in 50mM NH ₄ HCO ₃ , pH 8.0.
Molecular Mass	34 kDa
Purity	>95% pure by SDS PAGE
Notes	Small volumes of ApoE native protein may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container's cap. Certain

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products may require to ship with dry ice.

Storage Aliquot and store at -70 deg C or lower. Avoid repeated freeze/thaw cycles.

Warning This product is for research use only. Not for use in diagnostic or therapeutic procedures.

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; LDLQC5; MGC1571;

Gene ID 348

mRNA Refseq NM_000041

Protein Refseq NP_000032

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-mediated lipid transport, organism-specific biosystem; Lipid digestion, mobilization, and transport, organism-specific biosystem; Lipoprotein metabolism, organism-

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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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