

# Native Human Apolipoprotein E

**Cat. No.** APOE-5336H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Native human APOE was expressed in Human Plasma.
<b>Species</b>	Human
<b>Source</b>	Human Plasma
<b>Description</b>	<p>Chylomicron remnants and Very Low Density Lipoprotein (VLDL) remnants are rapidly removed from the circulation by receptor-mediated endocytosis in the liver. Apolipoprotein E (APOE), a main apoprotein of the chylomicron, binds to a specific receptor on liver cells and peripheral cells. APOE serves as a ligand for low density receptors and participates in the transport and redistribution of cholesterol and other lipids. Other functions include immunoregulation and cell growth modulation and differentiation. APOE is thought to be involved in tissue repair as increased amounts of the protein are found at sites of peripheral nerve injury and regeneration. APOE is essential for the normal catabolism of triglyceride-rich lipoprotein constituents.</p>
<b>Form</b>	Frozen Liquid in 50mM NH <sub>4</sub> HCO <sub>3</sub> , pH 8.0.
<b>Molecular Weight</b>	34 kDa
<b>Purity</b>	> 95% by SDS-PAGE
<b>Certification</b>	Prepared from fresh, non-frozen plasma shown to be non reactive for HbsAG, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.

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<b>Storage</b>	Store at -80oC.
<b>Pathways</b>	Alzheimer"s disease; Chylomicron-mediatedlipid transport; HDL-mediated lipid transport; Lipid digestion; Lipoproteinmetabolism; Metabolism of lipids and lipoproteins; Statin Pathway
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">APOE apolipoprotein E [ Homosapiens ]</a>
<b>Official Symbol</b>	<a href="#">APOE</a>
<b>Synonyms</b>	APOE; apolipoproteinE; AD2;LPG; LDLCQ5; MGC1571; apolipoprotein E; apo-E; apolipoprotein E3;OTTHUMP00000159143; OTTHUMP00000197075; OTTHUMP00000197076;OTTHUMP00000197077
<b>Gene ID</b>	<a href="#">348</a>
<b>mRNA Refseq</b>	<a href="#">NM_000041</a>
<b>Protein Refseq</b>	<a href="#">NP_000032</a>
<b>MIM</b>	<a href="#">107741</a>
<b>UniProt ID</b>	<a href="#">P02649</a>
<b>Chromosome Location</b>	19q13.31
<b>Function</b>	antioxidantactivity; beta-amyloid binding; cholesterol transporter activity; heparin binding;identical protein binding; lipid binding; lipid transporter activity;lipoprotein

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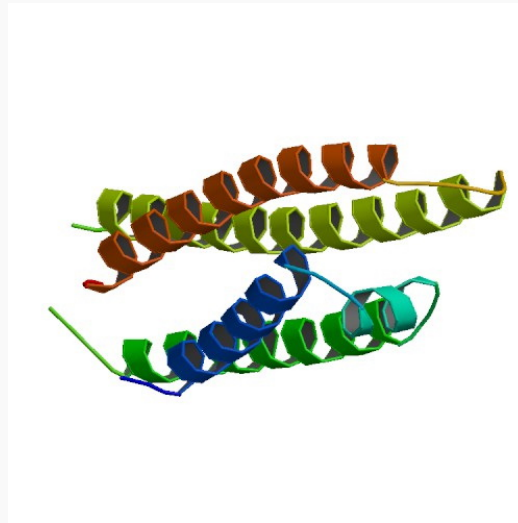
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particle binding; low-density lipoprotein particle receptor binding; metal chelating activity; phosphatidylcholine-sterol O-acyltransferase activator activity; phospholipid binding; protein binding; protein heterodimerization activity; tau protein binding; very-low-density lipoprotein particle receptor binding

PDB rendering based on 1b68.



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