

Native Human Apolipoprotein E

Cat. No. APOE-5283H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native human APOE was expressed in Human Plasma.
Species	Human
Source	Human Plasma
Description	The human Apolipoprotein E (APOE), is 299 amino acids long and transports lipoproteins, fat-soluble vitamins, and cholesterol into the lymph system and then into the blood. APOE is synthesized principally in the liver, but has also been found in other tissues such as the brain, kidneys, and spleen. In the nervous system, non-neuronal cell types, most notably astroglia and microglia, are the primary producers of APOE, while neurons preferentially express the receptors for APOE. Concentration in normal plasma is 5 mg/dl. APOE is involved with triglyceride, phospholipid, cholesteryl ester, and cholesterol transport in and out of cells and is a ligand for LDL receptors.
Form	Liquid in 75mM PBS pH 7.4 + 75 mM NaCl + 0.5 M EDTA.
Molecular Weight	34-37 kDa
Purity	> 98% by SDS-PAGE
Concentration	Typically 1 mg/mL
Storage	Store at -20 °C. Avoid repeated freeze-thaw cycles.

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Pathways

Alzheimer's disease; Chylomicron-mediated lipid transport; HDL-mediated lipid transport; Lipid digestion; Lipoprotein metabolism; Metabolism of lipids and lipoproteins; Statin Pathway

GENE INFORMATION
Gene Name

APOE apolipoprotein E [Homosapiens]

Official Symbol

APOE

Synonyms

APOE; apolipoproteinE; AD2; LPG; LDLCQ5; MGC1571; apolipoprotein E; apo-E; apolipoprotein E3; OTTHUMP00000159143; OTTHUMP00000197075; OTTHUMP00000197076; OTTHUMP00000197077

Gene ID

348

mRNA Refseq

NM_000041

Protein Refseq

NP_000032

MIM

107741

UniProt ID

P02649

**Chromosome
Location**

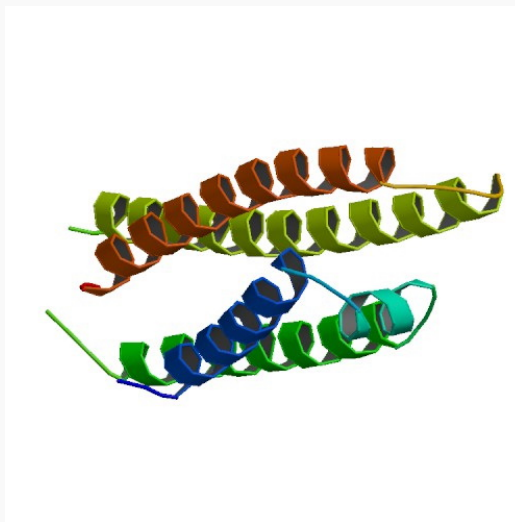
19q13.31

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; 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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