

Recombinant Human Apolipoprotein E, E2 Isoforms

Cat. No. APOE-2630H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human apolipoprotein E-E2 (cysteine at amino acids 112 and 158) expressed in *S.frugiperda* insect cells using a baculovirus expression system. Binds to β -amyloid protein but not to the LDL receptor. Does not compete with human low density lipoprotein for binding to the human Apo B/E (LDL) receptor.

Species Human

Source *S.frugiperda*

Protein Length 112-158 a.a.

Description ApoE belongs to a group of proteins that bind reversibly with lipoprotein and play an important role in lipid metabolism. In addition to facilitating solubilization of lipids, these proteins help to maintain the structural integrity of lipoproteins, serve as ligands for lipoprotein receptors, and regulate the activity of enzymes involved in lipid metabolism. Significant quantities of ApoE are produced in liver and brain and to some extent in almost every organ. ApoE exists in three major isoforms; E2, E3, and E4, which differ from one another by a single amino-acid substitution.

Form Liquid.

Formulation In 700 mM NH_4HCO_3 .

Molar Mass 34000Da.

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Purity ≥95% by SDS-PAGE.

Storage ≤ -70oC. Ship: Dry Ice Only.

GENE INFORMATION

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

Synonyms APOE; apolipoprotein E; AD2; LPG; LDLCQ5; MGC1571; apolipoprotein E3; Apo-E

Gene ID [348](#)

mRNA Refseq [NM_000041](#)

Protein Refseq [NP_000032](#)

MIM [107741](#)

UniProt ID [P02649](#)

Chromosome Location 19q13.31

Pathway Alzheimer"s disease; Metabolism of lipids and lipoproteins

Function antioxidant activity; beta-amyloid binding; cholesterol transporter activity; lipid transporter activity; low-density lipoprotein receptor binding; phosphatidylcholine-sterol O-acyltransferase activator activity; protein heterodimerization activity; very-low-density lipoprotein receptor binding

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