

Recombinant Human Apolipoprotein E, E2 Isoform

Cat. No. APOE-695H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This recombinant human ApoE2 is a 34.3 kDa protein containing 300 amino acid residues. It is produced in <i>E.coli</i> .
Species	Human
Source	E.coli
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 is an important constituent of all plasma lipoproteins.
Amino Acid Sequence	MKVEQAVETE PEPELRQQTE WQSGQRWELA LGRFWDYLRW VQTLSE QVQ EELLSSQVTQE LRALMDETMK ELKAYKSELE EQLTPVAEET RARLSKELQA AQARLGADME DVCGRVLVQYR GEVQAMLGQS TEELRVRLAS HLRKLRKRL RDADDLQKCL AVYQAGAREG AERGLSAIRE RLGPLVEQGR VRAATVGS LA GQPLQERAQA WGERLRARME EMGSRTDRL DEVKEQVAEV RAKLEEQAQQ IRLQAEAFQA RLKSWFEPLV EDMQRQWAGL VEKVQAAVGT SAAPVPSDNH.
Note	If suitable for use (ie, if this material is not being used labelling), we recommend adding 0.1% protease free BSA to dilution buffers to minimize absorption on

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	containers.
Supplied	Lyophilized powder from 20mM Sodium Phosphate, pH7.8 + 0.5mM DTT.
Purity	>90% by SDS-Page and HPLC analysis. Endotoxin level is less than 0.1ng per ug (1EU/ug) of ApoE2.
Reconstitution	Lyophilized ApoE should be reconstituted in water to a concentration of 0.1-1mg/ml. Allow to set at least 30 minutes at 4°C, Mix Well. If desired, centrifuge for 1-2 minutes at 1000 rpm to concentrate material in vial. This solution can be diluted into other buffered solutions or stored at -20°C for future use.
Storage	The lyophilized powder is stable at room temperature but it is best stored desiccated below 0°C. Reconstituted ApoE should be stored in working aliquots at -20°C. Avoid frequent freeze thaw cycles.

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

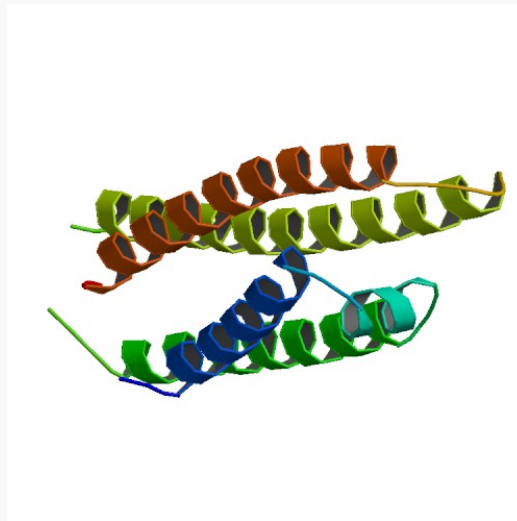
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Chromosome Location	19q13.31
Pathway	Alzheimer"s disease; Metabolism of lipids and lipoproteins
Function	antioxidant activity; beta-amyloid binding; cholesterol transporter activity; lipid transporter activity; low-density lipoprotein receptor binding; phosphatidylcholine-sterol O-acyltransferase activator activity; protein heterodimerization activity; very-low-density lipoprotein receptor binding

PDB rendering based on 1b68.



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