

ApoE4 Human E. coli

Product Data Sheet

Type: Recombinant	Cat. No.:	
Source: E. coli	RBG100630100	(100 µg)
Species: Human	RBG100630500	(500 µg)
Other names: Apolipoprotein E4	RBG100631000	(1mg)

Introduction to the Molecule

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. Individuals heterozygous for the ApoE4 allele are at higher risk of late-onset Alzheimer's disease-. Recombinant human ApoE4 is a 34.4 kDa protein containing 300 amino acid residues.

Research topic

Cardiovascular disease

Amino Acid Sequence

MKVEQAVETE PEPELRQQTE WQSGQRWELA LGRFWDYLRW VQTLSEQVQE ELLSSQVTQE LRALMDETMK ELKAYKSELE
 EQLTPVAEET RARLSKELQA AQARLGADME DVRGRLVQYR GEVQAMLGQS TEELRVRLAS HLRKLRKRL RDADDLQKRL
 AVYQAGAREG AERGLSAIRE RLGPLVEQGR VRAATVGSLA GQPLQERAQA WGERLRARME EMGSRTDRDL DEVKEQVAEV
 RAKLEEQAQQ IRLQAEAFQA RLKSWFEPLV EDMQRQWAGL VEKVQAAVGT SAAPVPSDNH

Source

E. coli

Purity

90%

Biological Activity

Data Not Available.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C

Storage, Stability/Shelf Life

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