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ApoE4, human recombinant protein
Apolipoprotein E4
Catalog # PBV10359r

Specification

ApoE4, human recombinant protein - Product info

Calculated MW	**34.4 kDa KDa**

ApoE4, human recombinant protein - Additional Info

Other Names
Apolipoprotein E4, APOE, apolipoprotein, apolipoproteins

Gene Source	**Human**
Source	**E. coli**
Assay&Purity	**SDS-PAGE; ≥90%**
Assay2&Purity2	**HPLC; ≥90%**
Recombinant	**Yes**

Application Notes
Reconstitute in dH_2O to a concentration of 0.1-1.0 mg/ml. The solution can then be diluted into other aqueous buffers and store at 4°C for 1 week or –20°C for future use.

Format
Lyophilized protein

Storage
-20°C; Sterile filtered and lyophilized with no additives

ApoE4, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ApoE4, human recombinant protein - Images

ApoE4, human recombinant protein - Background

ApoE belongs to a group of proteins that bind reversibly with lipoprotein and play an important role in lipid metabolism. In addition to facilitating solublization 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

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and brain and to some extent in almost every organ. ApoE is an important constituent of all plasma lipoproteins. It’s interaction with specific ApoE receptor enables uptake of chylomicron remnants by liver cells, which is an essential step during normal lipid metabolism. It also binds with the LDL receptor (apo B/E). Defects in ApoE are a cause of hyperlipoproteinemia type III. 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 (Accession No. AAB59397). This protein has a N-terminal His-tag.