

DATA SHEET

Product Name: Human Apolipoprotein E4, ApoE4, Recombinant

Catalog #: A-2017

Source: E. coli

Molecular Mass: 34.4 kDa

Resuspension:

Protein Purity: >90% by SDS-PAGE and HPLC analyses Endotoxin level is <0.1 ng/µg of ApoE4

Supplied As: Sterile filtered and lyophilized with no additives

Centrifuge the vial prior to opening. Reconstitute in water 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.

Storage: The lyophilized ApoE4 is best-stored desiccated below 0°C. Reconstituted

ApoE4 should be stored at working aliquots at -20°C.

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 and brain and to some extent in almost every organ. ApoE is an important constituent of all plasma lipoproteins. It's

Description: 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 aminoacid 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).

For research use only. Not for use in humans.