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Recombinant Human ApoE2

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. 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. Compared with E3 and E4, E2 exhibits the lowest receptor binding affinity. E2 allele carriers had significantly lower levels of total cholesterol, low-density lipoprotein cholesterol, and non-high-density lipoprotein cholesterol, as well as increased ApoE levels. Recombinant human ApoE2 is a 34.3 kDa protein containing 300 amino acid residues.

Source:	E. coli
Molecular Weight:	28.2 kDa
Purity:	> 90% by SDS-PAGE and HPLC analyses
Endotoxin level:	< 0.1 ng per µg of ApoE2
Stabilizer:	none
Formulation:	lyophilized

Biological Activity: Data not available.

Reconstitution: Reconstitute in 5 mM Sodium Phosphate, pH 7.8 + 0,5 mM DTT to a concentration of 0.1-1.0 mg/ml. This solution can be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.

Stability: The lyophilized protein is stable for at least 2 years from date of receipt at -20°C. Reconstituted ApoE2 is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. **Avoid repeated freeze-thaw cycles.**

Usage: Human ApoE2 offered for research use. Not for drug use. **Not for human use.**

Catalogue number: 100-124

Size: 500 µg

****please note: always centrifuge product before opening Vial.****