APOE2
Recombinant Human Apolipoprotein E2

Catalog No.	CRA402A	**Quantity:**	50 µg
	CRA402B		500 µg
	CRA402C		1 mg

Alternate Names: Human ApoE2, ApoE2, Apo-E2, Apo E2, h-ApoE2, rh-ApoE2, recombinant human ApoE2, recombinant ApoE2, Apo

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 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 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 protein containing 300 amino acid residues.

Gene ID: 348

Source: *E. coli*

Molecular Weight: 34.3 kDa

Formulation: Lyophilized from a sterile filtered solution without additives

Purity: >90% by SDS-PAGE and HPLC analyses

Endotoxin Level: <0.1 ng/µg of APOE2

Reconstitution: **Centrifuge vial prior to opening**. First add sterile distilled water to the vial to fully solubilize the protein to a concentration of 0.1-1.0 mg/mL. After complete solubilization of the protein, it can be further diluted to other aqueous solutions.

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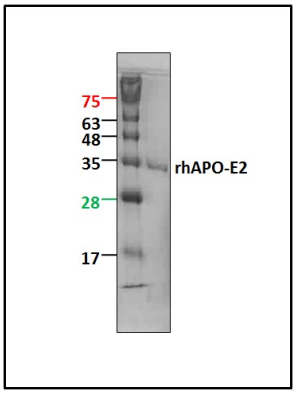
Storage & Stability: Store lyophilized protein at -20°C to -80°C. Reconstituted protein is stable for 1 week at 2-4°C. For long term storage, aliquot and store at -20°C. **Avoid repeated freeze-thaw cycles.**



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