

**ApoE3, human recombinant protein**  
**Apolipoprotein E3**  
**Catalog # PBV10358r****Specification**

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**ApoE3, human recombinant protein - Product info**

Primary Accession [P02649](#)  
Calculated MW **34 kDa KDa**

**ApoE3, human recombinant protein - Additional Info**

Gene ID **348**  
Gene Symbol **APOE**

**Other Names**

Apolipoprotein E3, 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<sub>2</sub>O 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 from 20 mM Sodium Phosphate

**ApoE3, 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 Cytometry](#)
- [Cell Culture](#)

**ApoE3, human recombinant protein - Images****ApoE3, 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 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. ApoE exists in three major isoforms; E2, E3, and E4, which differ from one another by a single amino-acid substitution. E3 is the most common isoform and is present in 40-90% of the population. Recombinant human ApoE3 is a 34.0 kDa protein containing 299 amino acid residues. This protein has a N-terminal His-tag.