# Apolipoprotein E/Apoe (ApoE) Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Apolipoprotein E/ApoE, Recombinant Protein |
| **Full Product Name** | Recombinant Mouse Apolipo Protein E/ApoE Protein (C-6His) |
| **Product Gene Name** | ApoE recombinant protein |
| **Product Synonym Names** | Apolipoprotein E; Apo-E; APOE |
| **Host** | Human Cells |
| **Form/Format** | Lyophilized from a 0.2 mum filtered solution of 20mM PB, 150mM NaCl, pH 7.4. |
| **Purity/Purification** | >95% as determined by reducing SDS-PAGE. |
| **Preparation and Storage** | Lyophilized protein should be stored at < -20 degree C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months. |
| **Molecular Weight** | Molecular Mass: 35.0 kDa<br>Actual Protein Molecular Mass: 37 kDa |
| **Sequence Positions** | Glu19-Gln311 |
| **3D Structure** | ModBase 3D Structure for P08226 |
| **Species** | Mouse |
| **Endotoxin** | <1.0 EU per mug as determined by LAL test. |
| **Fusion Tag** | C-6His |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for ApoE recombinant protein** | Apolipoprotein E (Apo-E), is a member of the apolipoprotein A1/A4/E family. ApoE is a major protein component of serum LDL, VLDL, HDL, and chylomicrons. APOE may function in mediating the binding, internalization, and catabolism of lipoprotein particles. It can serve as a ligand for the LDL (apo B/E) receptor and for the specific apo-E receptor (chylomicron remnant) of hepatic tissues. APOE is usually secreted in plasma. Phosphorylation sites are present in the extracellular medium. |
| **Other Notes** | Small volumes of ApoE recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for ApoE purchase** | MBS2553444 is a recombinant protein targeting ApoE. Also known as Recombinant Mouse Apolipo Protein E/ApoE Protein (C-6His). Host: Human Cells. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ApoE. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 802084029 |
| **NCBI GeneID** | 11816 |
| **NCBI Accession #** | NP_001292748.1 |
| **UniProt Primary Accession #** | P08226 |
| **UniProt Related Accession #** | P08226 |

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| **GenBank Nucleotide #** | NM_001305819.1 |
| **NCBI Official Full Name** | apolipoprotein E |
| **NCBI Official Synonym Full Names** | apolipoprotein E |
| **NCBI Official Symbol** | Apoe |
| **NCBI Official Synonym Symbols** | Apo-E; AI255918 |
| **UniProt Protein Name** | Apolipoprotein E |
| **Protein Family** | Apolipoprotein |
| **UniProt Gene Name** | Apoe |
| **UniProt Synonym Gene Names** | Apo-E |
| **NCBI Protein Information** | apolipoprotein E |
| **NCBI Summary for ApoE** | This gene encodes a member of the apolipoprotein A1/A4/E family of proteins. This protein is involved in the transport of lipoproteins in the blood. It binds to a specific liver and peripheral cell receptor, and is essential for the normal catabolism of triglyceride-rich lipoprotein constituents. Homozygous knockout mice for this gene accumulate high levels of cholesterol in the blood and develop atherosclerosis. Different alleles of this gene have been associated with either increased risk or a protective effect for Alzheimer's disease in human patients. This gene maps to chromosome 7 in a cluster with the related apolipoprotein C1, C2 and C4 genes. [provided by RefSeq, Apr 2015] |
| **UniProt Comments for ApoE** | Mediates the binding, internalization, and catabolism of lipoprotein particles. It can serve as a ligand for the LDL (apo B/E) receptor and for the specific apo-E receptor (chylomicron remnant) of hepatic tissues. |
| **Research Articles on ApoE** | **1.** forskolin/rolipram incorporated into liposomes, designed to target inflamed endothelium, shows reduced atherosclerosis and CC formation in ApoE -/- mice |
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