

Product datasheet for **TP723016**

Apolipoprotein E (APOE) (NM_000041) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human apolipoprotein E (APOE).
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MKVEQAVETE PEPELRQQTE WQSGQRWELA LGRFWDYLRW VQTLSEQVQE ELLSSQVTQE LRALMDETMK ELKAYKSELE EQLTPVAEET RARLSKELQA AQARLGADME DVCGRVLVQYR GEVQAMLGQS TEELRVRLAS HLRKLRKRL RDADDLQKRL AVYQAGAREG AERGLSAIRE RLGPLVEQGR VRAATVGLA GQPLQERAQA WGERLRARME EMGSRTRDRL DEVKEQVAEV RAKLEEQAQQ IRLQAEAFQA RLKSWFEPLV EDMQRQWAGL VEKVQAAVGT SAAPVPSDNH
Tag:	Tag Free
Predicted MW:	34 kDa
Concentration:	lot specific
Purity:	>90% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a 0.2 μM filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Bioactivity:	Surface Plasmon Resonance (SPR) (PMID: 27514935)
Endotoxin:	Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg)
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_000032
Locus ID:	348
UniProt ID:	P02649
RefSeq Size:	1223
Cytogenetics:	19q13.32
RefSeq ORF:	951
Synonyms:	AD2; APO-E; ApoE4; LDLQC5; LPG



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Summary:

The protein encoded by this gene is a major apoprotein of the chylomicron. It binds to a specific liver and peripheral cell receptor, and is essential for the normal catabolism of triglyceride-rich lipoprotein constituents. This gene maps to chromosome 19 in a cluster with the related apolipoprotein C1 and C2 genes. Mutations in this gene result in familial dysbetalipoproteinemia, or type III hyperlipoproteinemia (HLP III), in which increased plasma cholesterol and triglycerides are the consequence of impaired clearance of chylomicron and VLDL remnants. [provided by RefSeq, Jun 2016]

Protein Families:

Adult stem cells, Druggable Genome, Secreted Protein, Stem cell - Pluripotency

Protein Pathways:

Alzheimer's disease

Product images: