

Active Recombinant Human APOE Protein, His-tagged

Cat. No. APOE-1377H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human APOE Protein (19-317 aa) is produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 306 amino acids and having a molecular mass of 35.2kDa. The APOE is fused to a Met and a 6 amino acid His tag [M-HHHHHH] at N-terminus and purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
ProteinLength	19-317 aa
Description	Apolipoprotein E3 (ApoE) is a 34kDa protein component of serum chylomicrons, VLDL, and HDL particles. ApoE mediates the binding, uptake, and catabolism of these particles as a result of interactions with the ApoE receptor and LDL receptors in the liver and brain. ApoE is imperative in fatty acid homeostasis and memory formation. Polymorphisms encode 3 variants (ApoE2, 3, 4), which are differentially connected to the development of atherosclerosis and neurogenerative disorders, mainly Alzheimer's disease.
Form	Sterile filtered solution supplied in 10mM MOPS, 50mM NaCl, 0.2 % (w/v) CHAPS and 1mM TCEP, PH 7.5.
Bio-activity	Immobilized rHuApoE3 binds to rMuVLDLR with EC50 less than 0.075-0.375g/ml.
Molecular Mass	35.2 kDa

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AA Sequence

MHHHHHHKVE QAVETEPEPE LRQQTEWQSG QRWELALGRF WDYLRWVQTL
 SEQVQEELLS SQVTQELRAL MDETMKELKA YKSELEEQLT PVAEETRARL
 SKELQAAQAR LGADMEDVCG RLVQYRGEVQ AMLGQSTEEL RVRLASHLRK
 LRKRLLRDAD DLQKRLAVYQ AGAREGAERG LSAIRERLGP LVEQGRVRAA
 TVGSLAGQPL QERAQAWGER LRARMEEMGS RTRDRLDEVK EQVAEVRAKL
 EEQAQQIRLQ AEAQFARLKS WFEPLVEDMQ RQWAGLVEKV QAAVGTSAAP
 VPSDNH.

Purity > 95% as determined by SDS-PAGE.

Usage The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Storage Store at 4 centigrade if entire vial will be used within 2-4 weeks. Store, frozen at -20 centigrade for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

GENE INFORMATION

Gene Name [APOE apolipoprotein E \[Homo sapiens \]](#)

Official Symbol [APOE](#)

Synonyms APOE; apolipoprotein E; AD2; LPG; LDLCQ5; MGC1571;

Gene ID [348](#)

mRNA Refseq [NM_000041](#)

Protein Refseq [NP_000032](#)

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UniProt ID

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