Active Recombinant Human ApoE4 Protein, Tag Free

Cat. No. ApoE4-3563H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Apolipoprotein E4 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing a total of 299 amino acids and having a molecular mass of 34.4 kDa.
Species	Human
Source	E.coli
Description	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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized from a sterile (0.2 μm) filtered aqueous solution containing 20mM PBS, pH 7.8 and 5% trehalose.
Bio-activity	When Recombinant Human ApoE4 is immobilized at 1 μg/mL (100 μL/well), the concentration of recombinant mouse VLDLR that produces 50% of the optimal binding response is found to be approximately 0.075-0.375 μg/mL.
Molecular Mass	34.4 kDa

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AASequence	KVEQAVETEPEPELRQQTEWQSGQRWELALGRFWDYLRWVQTLSEQVQEELLSS QVTQELRALMDETMKELKAYKSELEEQLTPVAEETRARLSKELQAAQARLGADMED VRGRLVQYRGEVQAMLGQSTEELRVRLASHLRKLRKRLLRDADDLQKRLAVYQAG AREGAERGLSAIRERLGPLVEQGRVRAATVGSLAGQPLQERAQAWGERLRARMEE MGSRTRDRLDEVKEQVAEVRAKLEEQAQQIRLQAEAFQARLKSWFEPLVEDMQRQ WAGLVEKVQAAVGTSAAPVPSDNH
Purity	> 95% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Storage	Lyophilized APOE4 although stable at room temperature for 3 weeks, should be stored desiccated below -18 centigrade. Upon reconstitution APOE4 should be stored at 4 centigrade between 2-7 days and for future use below -18 centigrade. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Shipping	Shipped at Room temperature.
Reconstitution	It is recommended to reconstitute the lyophilized APOE4 in sterile 18M-cm H2O not less than 100 µg/mL, which can then be further diluted to other aqueous solutions.

GENE INFORMATION

Gene Name	APOE apolipoprotein E [Homo sapiens (human)]
Official Symbol	APOE
Synonyms	APOE; apolipoprotein E; AD2; LPG; APO-E; ApoE4; LDLCQ5; apolipoprotein E; apolipoprotein E3
Gene ID	348

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mRNA Refseq	NM_000041
Protein Refseq	NP_000032
MIM	107741
UniProt ID	P02649

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