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32-6302: APOE3 Human

Application :	Functional Assay
Alternative Name :	Apolipoprotein E, LDLCQ5, APO-E, LPG, AD2, Alzheimer Disease 2 (APOE*E4-Associated, Late Onset), Apolipoprotein E3, APOE.

Description

Source: Escherichia Coli.
Sterile Filtered clear solution.
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.
APOE3 Human Recombinant (19-317) 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.

Product Info

Amount :	100 µg / 500 µg
Purification :	Greater than 95% as determined by SDS-PAGE.
Content :	sterile filtered solution supplied in 10mM MOPS, 50mM NaCl, 0.2 %(w/v) CHAPS and 1mM TCEP, PH 7.5.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C 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.
Amino Acid :	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 AEAFQARLKS WFEPLVEDMQ RQWAGLVEKV QAAVGTSAAP VPSDNH.

Application Note

Immobilized rHuApoE3 binds to rMuVLDLR with EC50 less than 0.075-0.375Âµg/ml.