
Product Data Sheet

Product Name: APOE3 Human
 Cat. No.: GP20057
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Apolipoprotein E; LDLCQ5; APO-E; LPG; AD2; Alzheimer Disease 2 (APOE*E4-Associated; Late Onset); Apolipoprotein E3; APOE.		
Amino Acid Sequence	MHHHHHHKVE QAVETEPEPE LRQQTEWQSG QRWELALGRF WDYLRRVWQTL SEQVQEELLS SQVTQELRAL MDETMKELKA YKSELEEQLT PVAEETRARL SKELQAAQAR LGADMEDVCG RLVQYRGEVQ AMLGQSTEEL RVRLASHLRK LRKRLLRDAD DLQKRLAVYQ AGAREGAERG LSAIRERLGP LVEQGRVRAA TVGSLAGQPL QERAQAWGER LRARMEEMGS RTRDRLDEVK EQVAEVRACL EEQAQQIRLQ AEAFAQRLKS WFEPLVEDMQ RQWAGLVEKV QAAVGTSAAP VPSDNH.		
Formulation	sterile filtered solution supplied in 10mM MOPS, 50mM NaCl, 0.2 % (w/v) CHAPS and 1mM TCEP, PH 7.5.		

Introduction

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.

Biological Activity

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

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

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.

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