

Apolipoprotein E3 Human Recombinant

Item Number	rAP-0333
Synonyms	Apolipoprotein E, LDLQC5, APO-E, LPG, AD2, Alzheimer Disease 2 (APOE*E4-Associated, Late Onset), Apolipoprotein E3, APOE.
Description	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 35kDa. The APOE is fused to a 7 amino acid His tag [M-HHHHHH] at N-terminus and purified by proprietary chromatographic techniques.
Uniprot Accession Number	P02649
Amino Acid Sequence	MHHHHHHKVE QAVETEPEPE LRQQTEWQSG QRWELALGRF WDYLRRVVQTL SEQVQEEELS SQVTQELRAL MDETMKELKA YKSELEEQLT PVAETRRL SKELQAAQAR LGADMEDVCG RLVQYR- GEVQ AMLGQSTEEL RVRLASHLRK LRKLLRDAD DLQKRLAVYQ AGAREGAERG LSAIRERLGP LVEQGRVRAA TVGSLAQPL QERAQAWGER LRARMEEMGS RTRDRLDEVK EQVAEVRAL EEQAQQIRLQ AEAFQARLKS WFEPLVEDMQ RQWAGLVEKV QAAVGTSAAP VPSDNH.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized APOE3 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution APOE should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Formulation and Purity	Lyophilized from a 0.2µm filtered solution in PBS. Greater than 95% as determined by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized APOE in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	Immobilized rHuApoE3 binds to rMuVLDLR with EC50 less than 0.4µg/ml.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**