

## 32-6303: APOE4 Human(Discontinued)

**Alternative Name :** Apolipoprotein E, APO-E, Alzheimer Disease 2 (APOE\*E4-Associated, Late Onset), Apolipoprotein E3, LDLQC5, LPG, AD2, APOE.

### Description

Source: Escherichia Coli.

Sterile Filtered White lyophilized (freeze-dried) powder.

Apolipoprotein E (APOE) is a chylomicron lipoprotein which is essential for the metabolism of lipoproteins and lipid transport. The APOE gene has 3 alleles, designated APOE2, APOE3, and APOE4. The APOE allelic proteins differ by only one or two amino acids, however have different biological structures and functions. APOE3 is the most common and neutral allele. The APOE4 allele is linked with an increased risk for Alzheimer's Disease (AD) and coronary artery disease (CAD). The APOE4 protein morphology decreases the ability of APOE4 to clear beta-amyloid protein from the brain, resulting in AD progression. The APOE2 allele is linked with type III hyperlipoproteinemia, which is characterized by defects in the clearance of plasma lipoproteins, however APOE2 may have a protective effect against AD.

Apolipoprotein E4 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing a total of 301 amino acids and having a molecular mass of 34.4kDa. The Accession # is P02649 VAR\_000652.

### Product Info

<b>Amount :</b>	100 µg(Discontinued) / 500 µg
<b>Purification :</b>	Greater than 90% as determined by SDS-PAGE.
<b>Content :</b>	Lyophilized from a sterile (0.2µm) filtered aqueous solution containing 10mM sodium phosphate, 0.5 mM DTT, pH 7.5. It is recommended to reconstitute the lyophilized APOE4 in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
<b>Storage condition :</b>	Lyophilized APOE4 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution APOE4 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.
<b>Amino Acid :</b>	GPKVE QAVETEPEPE LRQTEWQSG QRWELALGRF WDYLRRVQTL SEQVQEELLS SQVTQELRAL MDETMKELKA YKSELEEQLT PVAEETRARL SKELQAAQAR LGADMEDVRG RLVQYRGEVQ AMLGQSTEEL RVRLASHLRK LRKLLRDAD DLQKRLAVYQ AGAREGAERG LSAIRERLGP LVEQGRVRAA TVGSLAQPL QERAQAWGER LRARMEEMGS RTRDRLDEVK EQVAEVRACL EEQAQQIRLQ AEAFQARLKS WFEPLVEDMQ RQWAGLVEKV QAAVGTSAAP VPSDNH.