



# Recombinant Rat Apolipoprotein E (ApoE)

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|--------------------------|---|
| <b>Product Code</b>      | CSB-EP001936RA-B  |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.   |
| <b>Uniprot No.</b>       | P02650  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Rattus norvegicus (Rat)   |
| <b>Purity</b>            | >85% (SDS-PAGE)   |
| <b>Sequence</b>          | EG ELEVTDQLPG QSDQPWEQAL NRFWDYLRWV QTLSDQVQEE<br>LQSSQVTQEL TVLMEDTMTE VKAYKKELEE QLGPVAEETR ARLAKEVQAA<br>QARLGADMED LRNRLGQYRN EVNTMLGQST EELRSRLSTH<br>LRKMRKRLMR DADDLQKRLA VYKAGAQEGA ERGVSAIRER LGPLVEQGRQ<br>RTANLGAGAA QPLRDRAQAL SDRIRGRLEE VGNQARDRLE EVREQMEEVR<br>SKMEEQTQQI RLQAEIFQAR IKGWFEPLVE DMQRQWANLM EKIQASVATN<br>SIASSTTVPLE NQ   |
| <b>Source</b>            | E.coli  |
| <b>Target Names</b>      | ApoE  |
| <b>Protein Names</b>     | Recommended name: Apolipoprotein E Short name= Apo-E  |
| <b>Expression Region</b> | 19-312  |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.   |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.   |
| <b>Protein Length</b>    | Full Length of Mature Protein   |
| <b>Target Details</b>    | Chylomicron remnants and very low density lipoprotein (VLDL) remnants are rapidly removed from the circulation by receptor-mediated endocytosis in the liver. Apolipoprotein E, a main apoprotein of the chylomicron, binds to a specific receptor on liver cells and peripheral cells. ApoE is essential for the normal catabolism of triglyceride-rich lipoprotein constituents. The APOE gene is mapped to chromosome 19 in a cluster with APOC1 and APOC2. Defects in apolipoprotein E 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. |
| <b>Reconstitution</b>    | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.   |
| <b>Shelf Life</b>        | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life  |



of lyophilized form is 12 months at -20°C/-80°C.