

## ApoE3 Human E. coli

### Product Data Sheet

|                                   |                  |          |
|-----------------------------------|------------------|----------|
| <b>Type:</b> Recombinant          | <b>Cat. No.:</b> |          |
| <b>Source:</b> E. coli            | RBG100620100     | (100 µg) |
| <b>Species:</b> Human             | RBG100620500     | (500 µg) |
| <b>Other names:</b> Apoprotein E3 | RBG100621000     | (1mg)    |

### Introduction to the Molecule

ApoE3 belongs to a group of proteins that bind reversibly with lipoprotein and play an important role in lipid metabolism. In addition to facilitating solubilization of lipids, these proteins help to maintain the structural integrity of lipoproteins, serve as ligands for lipoprotein receptors and regulate the activity of enzymes involved in lipid metabolism. Significant quantities of ApoE are produced in liver and brain and to some extent in almost every organ. ApoE exists in three major isoforms; E2, E3 and E4, which differ from one another by a single amino-acid substitution. E3 is the most common isoform and is present in 40-90% of the population. Recombinant human ApoE3 is a 34.0 kDa protein containing 299 amino acid residues.

### Research topic

Cardiovascular disease

### Amino Acid Sequence

MKVEQAVETE PEPELRQQTE WQSGQRWELA LGRFWDYLRW VQTLSEQVQE ELLSSQVTQE LRALMDETMK ELKAYKSELE  
 EQLTPVAEET RARLSKELQA AQARLGADME DVCGRVQYR GEVQAMLGQS TEELRVRLAS HLRKLRKRL RDADDLQKRL  
 AVYQAGAREG AERGLSAIRE RLGPLVEQGR VRAATVGSLA GQPLQERAQA WGERLRARME EMGSRTDRDL DEVKEQVAEV  
 RAKLEEQAQQ IRLQAEAFQA RLKSWFEPLV EDMQRQWAGL VEKVQAAVGT SAAPVPSDNH

### Source

E. coli

### Purity

90%

### Biological Activity

Data not available.

### Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

### Reconstitution

Centrifuge the vial prior to opening. Reconstitute in 20 mM Sodium Phosphate, pH 7.8 + 0.5 mM DTT to a concentration of 1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C

### Storage, Stability/Shelf Life

|   |                               |                               |   |   |
|---|-------------------------------|-------------------------------|---|---|
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