

## Recombinant Human Apolipoprotein E3

#R00605

Size: 5 µg/100 µg/500 µg

### Stability & Storage

Please use a manual defrost freezer and avoid repeated freeze-thaw cycles.

-Lyophilized protein should be stored at ≤ -20°C, stable for 12 months after receipt.

-Reconstituted protein solution can be stored at 2-8°C for 1-2 weeks.

-Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.



**Warning:** This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

### Background

Apolipoprotein E (apoE) is a major apolipoprotein involved in lipoprotein metabolism. It is a polymorphic protein and different isoforms are associated with variations in lipid and lipoprotein levels and thus cardiovascular risk. The ApoE isoforms are classified based on their relative charge. Different mutations causing the same migration pattern after isoelectric focusing define the different isoform subtypes. In addition to the three major isoforms apoE2, E3 and E4, three minor apoE isoforms have been observed by isoelectric focusing, E1, E5, and E7, each one presenting several nucleotide sequence variants with different amino acid substitutions.

### AA Sequence

Lys19-His317, Accession # P02649, Cys130/Arg176

### Reconstitution

Always centrifuge tubes before opening. Do not mix by

vortex or pipetting. Reconstitute in sterile distilled water to a concentration of 0.1-1.0 mg/mL. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

### Product Specification

|                            |                                                                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>             | Human                                                                                                                                                                               |
| <b>Source</b>              | Escherichia coli.                                                                                                                                                                   |
| <b>Molecular Weight</b>    | Recombinant Human ApoE3 Protein, a monomer, containing 299 amino acid residues, has a predicted molecular mass of approximately 34.3 kDa.                                           |
| <b>Purity</b>              | > 95% by SDS-PAGE gel and HPLC analyses.                                                                                                                                            |
| <b>Biological Activity</b> | Measured by its binding ability in a functional ELISA.<br>Recombinant Human Apolipoprotein E2 binds to Recombinant Human VLDLR Protein with an ED <sub>50</sub> of 10.0- 100 ng/mL. |
| <b>Formulation</b>         | Lyophilized from a 0.22 µm filtered solution of in PB and                                                                                                                           |

DTT. See CoA for details.

**Endotoxin** Less than 1 EU/μg of rHuApoE3  
as determined by LAL test.

**Shipping** The product is shipped at  
ambient temperature. Upon  
receipt, store it immediately at  
the temperature listed below.

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