# Recombinant Pig APOE Protein, His-tagged

**Cat. No.** APOE-227P **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Pig APOE Protein (Cys16-Arg175) with N-His tag was expressed in E. coli. |
| **Species** | Pig |
| **Source** | E.coli |
| **ProteinLength** | Cys16-Arg175 |
| **Description** | APOE is an apolipoprotein, a protein associating with lipid particles, that mainly functions in lipoprotein-mediated lipid transport between organs via the plasma and interstitial fluids. APOE is a core component of plasma lipoproteins and is involved in their production, conversion and clearance. Apoliproteins are amphipathic molecules that interact both with lipids of the lipoprotein particle core and the aqueous environment of the plasma. As such, APOE associates with chylomicrons, chylomicron remnants, very low density lipoproteins (VLDL) and intermediate density lipoproteins (IDL) but shows a preferential binding to high-density lipoproteins (HDL). It also binds a wide range of cellular receptors including the LDL receptor/LDLR and the very low-density lipoprotein receptor/VLDLR that mediate the cellular uptake of the APOE-containing lipoprotein particles. Finally, APOE has also a heparin-binding activity and binds heparan-sulfate proteoglycans on the surface of cells, a property that supports the capture and the receptor-mediated uptake of APOE-containing lipoproteins by cells. |

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| **Form** | Freeze-dried powder |
| **Molecular Mass** | Predicted Molecular Mass: 22.6 kDa<br>Accurate Molecular Mass: 25 kDa |
| **Purity** | > 97% |
| **Applications** | Positive Control; Immunogen; SDS-PAGE; WB. |
| **Stability** | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| **Storage** | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months. |
| **Storage Buffer** | PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300. |
| **Reconstitution** | Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex. |

## GENE INFORMATION

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| **Gene Name** | APOE apolipoprotein E [ Sus scrofa (pig) ] |
| **Official Symbol** | APOE |
| **Synonyms** | APOE; apolipoprotein E; apo-E |
| **Gene ID** | 397576 |

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| **mRNA Refseq** | NM_214308 |
| **Protein Refseq** | NP_999473 |
| **UniProt ID** | P18650 |

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