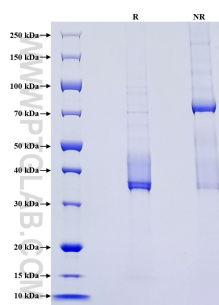


# Recombinant Human APOE protein (His Tag)

Catalog Number: Eg0448

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: His Tag
Technical Specifications	<p><b>Purity:</b> &gt;90 %, SDS-PAGE</p> <p><b>Endotoxin Level:</b> &lt;0.1 EU/ µg protein, LAL method</p> <p><b>Source:</b> HEK293-derived Human APOE protein Lys19-His317 (Accession# P02649) with a His tag at the C-terminus.</p> <p><b>GeneID:</b> 348</p> <p><b>Accession:</b> P02649</p> <p><b>Predicted Molecular Mass:</b> 38 kDa</p> <p><b>SDS-PAGE:</b> 34-36 kDa, reducing (R) conditions</p> <p><b>Formulation:</b> Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p><b>Storage:</b> It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> <li>• Until expiry date, -20°C to -80°C as lyophilized proteins.</li> <li>• 3 months, -20°C to -80°C under sterile conditions after reconstitution.</li> </ul> <p><b>Shipping:</b> The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>Apolipoprotein E (APOE) is a core component of plasma lipoproteins and is involved in a variety of biological processes, including plasma lipoprotein metabolism, intracellular cholesterol utilization, cell growth, immune regulation, and neuronal growth and repair. The ε 4 allele of the APOE gene is the strongest genetic risk factor for late-onset Alzheimer's disease (AD). Mouse APOE, like ApoE4, contains equivalents of Arg-112 and Glu-255 but lacks the critical Arg-61 equivalent. APOE has heparin-binding activity and binds to heparan sulfate proteoglycans on the cell surface, a property that facilitates cellular capture and receptor-mediated uptake of APOE-containing lipoproteins.</p>		
References	<ol style="list-style-type: none"> <li>1. Teng E, et al. (2015). Dement Geriatr Cogn Disord.39(3-4):154-66.</li> <li>2. Raffai R.L., et al. (2001). Proc Natl Acad Sci U S A.98(20):11587-11591.</li> <li>3. Mooijjaart SP, et al. (2006). PLoS Med.3(6):e176.</li> <li>4. Maloney B, et al. (2007). J Neurochem.103(3):1237-1257.</li> </ol>		
Synonyms	APOE, Apo E, Apo-E, apoe4, apolipoprotein E		

## Selected Validation Data



Purity of Recombinant Human APOE was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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