

# Mouse APOE/Apolipoprotein E Protein

Cat. No. APO-MM202

## Description

<b>Source</b>	Recombinant Mouse APOE/Apolipoprotein E Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Glu19-Gln311.
<b>Accession</b>	P08226
<b>Molecular Weight</b>	The protein has a predicted MW of 60.7 kDa. Due to glycosylation, the protein migrates to 62-66 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

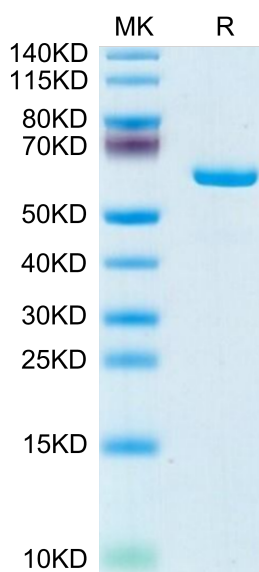
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in 20mM PB, 150mM NaCl (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Apolipoprotein E (apoE) is a lipid carrier in both the peripheral and the central nervous systems. Lipid-loaded apoE lipoprotein particles bind to several cell surface receptors to support membrane homeostasis and injury repair in the brain. Considering prevalence and relative risk magnitude, the ε4 allele of the APOE gene is the strongest genetic risk factor for late-onset Alzheimer's disease (AD).

## Assay Data

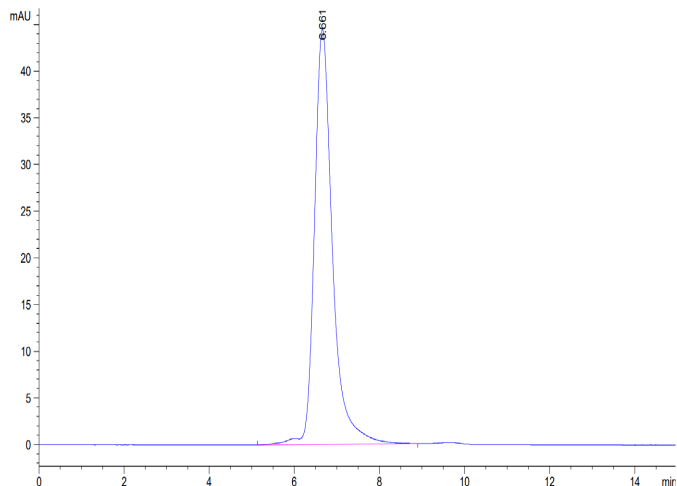
### Bis-Tris PAGE



Mouse APOE on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data



The purity of Mouse APOE is greater than 95% as determined by SEC-HPLC.