

For Research Use Only

# Recombinant Mouse APOE protein (His Tag)



Catalog Number: Eg1093

## Basic Information

**Species:**  
Mouse

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
His Tag

## Technical Specifications

**Purity:**

>90 %, SDS-PAGE

**Endotoxin Level:**

<0.1 EU/  $\mu$ g protein, LAL method

**Source:**

HEK293-derived Mouse APOE protein Glu19-Gln311 (Accession# P08226) with a His tag at the C-terminus.

**GeneID:**

11816

**Accession:**

P08226

**Predicted Molecular Mass:**

35.0 kDa

**SDS-PAGE:**

30-32 kDa, reducing (R) conditions

**Formulation:**

Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Apolipoprotein E (APOE) was first identified in the 1970s as one of the protein components of plasma very-low-density lipoprotein (VLDL) and found to play a critical role in plasma cholesterol metabolism. APOE is a 299-amino acid polypeptide that mediates the binding, internalization, and catabolism of lipoprotein particles, and also serves as a ligand for the LDL (apo B/E) receptor and for the specific apo-E receptor (chylomicron remnant) of hepatic tissues. The very strong association of the APOE  $\epsilon$ 4 allele with AD risk and its role in the accumulation of amyloid  $\beta$  in brains of people and animal models solidify the biological relevance of APOE isoforms but do not provide mechanistic insight.

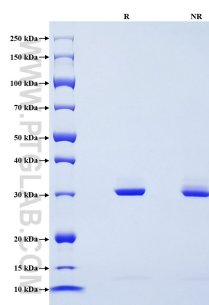
## References

1. Montine K S, et al. (1998). J Lipid Res. 39,12: 2443-51.
2. Chen Y, et al. (2021). Neuron. 109(2):205-221.
3. Koutsodendris N, et al. (2022). Annu Rev Pathol. 17:73-99.

## Synonyms

AI255918, apolipoprotein E

## Selected Validation Data



Purity of Recombinant Mouse 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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