

Datasheet for ABIN7273868

APOE Protein (AA 19-317) (Fc Tag)**2** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	APOE
Protein Characteristics:	AA 19-317
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This APOE protein is labelled with Fc Tag.

Product Details

Purpose:	Human APOE4/Apolipoprotein E Protein
Sequence:	Lys19-His317
Characteristics:	Recombinant Human APOE4/Apolipoprotein E Protein is expressed from HEK293 with hFc tag at the N-Terminus. It contains Lys19-His317.
Purity:	> 95 % as determined by Tris-Bis PAGE
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 11.87 nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

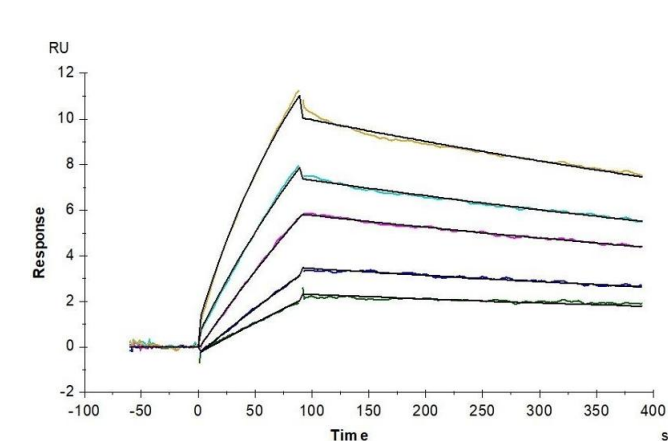
Target:	APOE
Alternative Name:	APOE4 (APOE Products)
Background:	Apolipoprotein E (apoE) is a lipid carrier in both the peripheral and the central nervous systems. Lipid-loaded apoE lipoprotein particles bind to several cell surface receptors to support membrane homeostasis and injury repair in the brain. Considering prevalence and relative risk magnitude, the ϵ 4 allele of the APOE gene is the strongest genetic risk factor for late-onset Alzheimer's disease (AD).
Molecular Weight:	61.6 kDa. Due to glycosylation, the protein migrates to 63-67 kDa based on Tris-Bis PAGE result.
Pathways:	Regulation of Cell Size , Lipid Metabolism

Application Details

Restrictions:	For Research Use only
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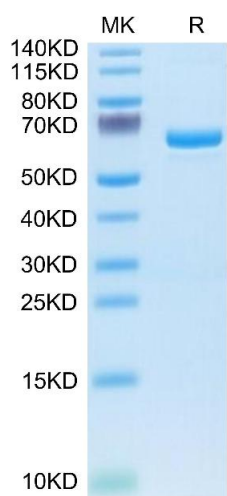
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μ g/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22 μ m filtered solution in PBS, 2 mM DTT, 5 mM CHAPS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



Surface Plasmon Resonance

Image 1. Human APOE4, hFc Tag captured on CM5 Chip via Protein A can bind Human LILRB4, His Tag with an affinity constant of 11.87 nM as determined in SPR assay (Biacore T200).



SDS-PAGE

Image 2. Human APOE on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .