

Datasheet for ABIN7273869

APOE Protein (AA 19-311) (His tag)**2** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	APOE
Protein Characteristics:	AA 19-311
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This APOE protein is labelled with His tag.

Product Details

Purpose:	Mouse APOE/Apolipoprotein E Protein
Sequence:	Glu19-Gln311
Characteristics:	Recombinant Mouse APOE/Apolipoprotein E Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Glu19-Gln311.
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 5.08 nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

Target:	APOE
Alternative Name:	APOE (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 $\epsilon 4$ allele of the APOE gene is the strongest genetic risk factor for late-onset Alzheimer's disease (AD).
Molecular Weight:	35.1 kDa same as Tris-Bis PAGE result.
UniProt:	P08226
Pathways:	Regulation of Cell Size , Lipid Metabolism

Application Details

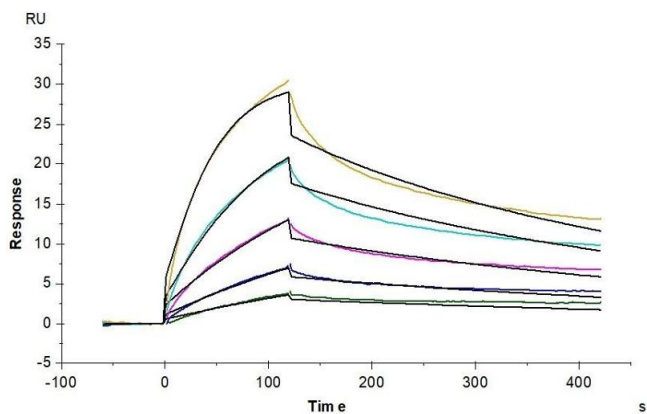
Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g/mL}$ is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
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. Mouse LILRB4, His Tag immobilized on CM5 Chip can bind Mouse APOE, His Tag with an affinity constant of 5.08 nM as determined in SPR assay (Biacore T200).



SDS-PAGE

Image 2. Mouse APOE/Apolipoprotein E on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

