Human APOE3/Apolipoprotein E Protein

Cat. No. APO-HM101

Description

Source	Recombinant Human APOE3/Apolipoprotein E Protein is expressed from HEK293 with His tag at the N-Terminus.
	It contains Lys19-His317.
Accession	P02649-1
Molecular Weight	The protein has a predicted MW of 35.3 kDa. Due to glycosylation, the protein migrates to 35-40 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 90% as determined by HPLC

Formulation and Storage

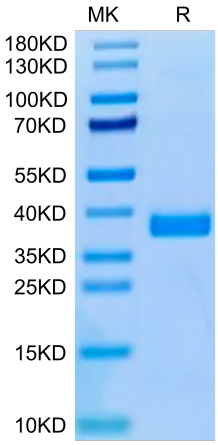
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-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).

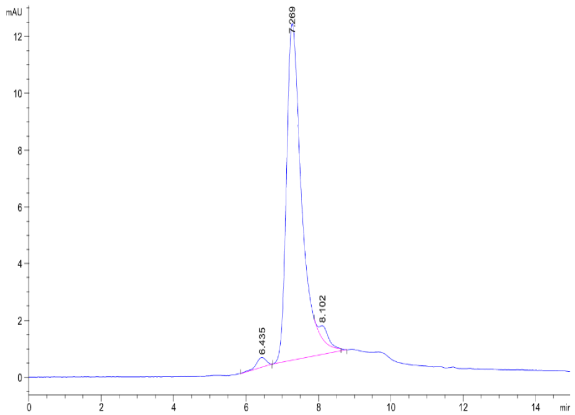
Assay Data

Bis-Tris PAGE



Human APOE3 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human APOE3 is greater than 90% as determined by SEC-HPLC.

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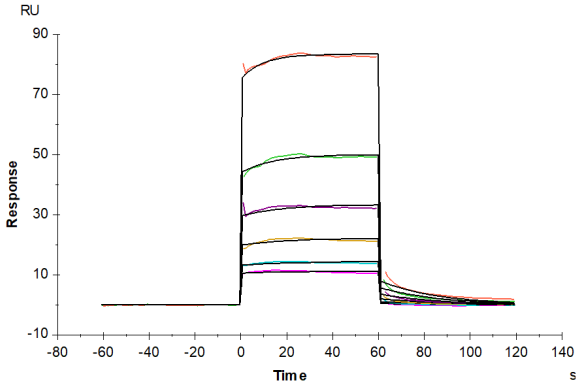
Assay Data

SPR Data



Human TREM2, hFc Tag captured on CM5 Chip via Protein A can bind Human APOE3, His Tag with an affinity constant of 1.21 μM as determined in SPR assay (Biacore T200) (QC Test).