

Biotinylated Human APOE3/Apolipoprotein E Protein (Primary Amine Labeling)



Cat. No. APO-HM101B

Description	
Source	Recombinant Biotinylated Human APOE3/Apolipoprotein E Protein (Primary Amine Labeling) 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 35-45 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 90% as determined by Bis-Tris PAGE > 90% as determined by HPLC

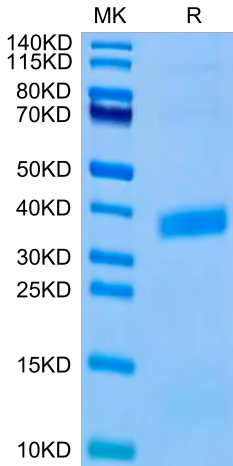
Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
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).

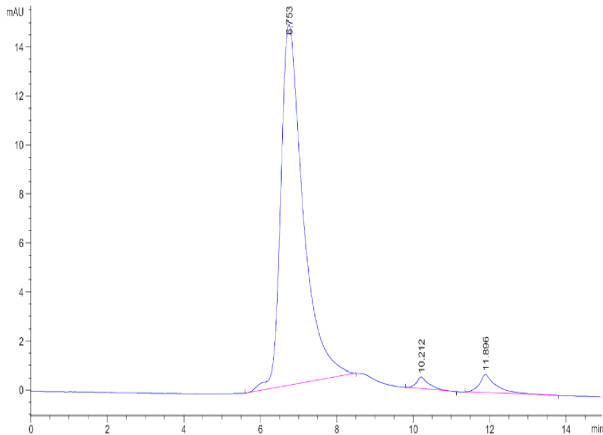
Assay Data

Bis-Tris PAGE



Biotinylated Human APOE3 on Bis-Tris PAGE under reduced condition. The purity is greater than 90%.

SEC-HPLC



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