

Rev06  
 Update: Oct,13,2025

**DATASHEET**

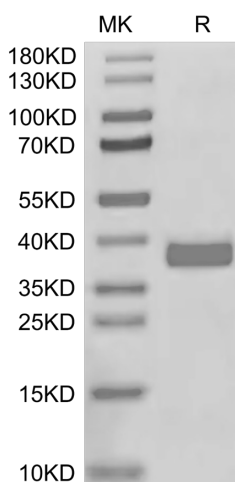
# APOE3/Apolipoprotein E, His, Human

Cat. No.: Z05037

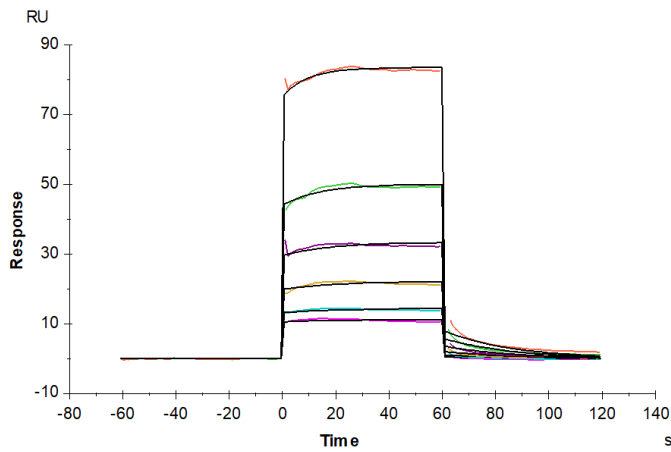
## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	<div style="display: flex; align-items: center; justify-content: center;"> <div style="background-color: #337ab7; color: white; padding: 5px; margin-right: 10px;">His</div> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> <b>APOE3/Apolipoprotein E (Lys19-His317)_x000D_</b>            Accession # P02649-1         </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <span>N-term</span> <span>C-term</span> </div>
<b>Purity</b>	> 95% as determined by BisTris PAGE
<b>Endotoxin Level</b>	Less than 1EU per µg by the LAL method.
<b>Expression System</b>	HEK293
<b>Theoretical Molecular Weight</b>	35.3 kDa
<b>Apparent Molecular Weight</b>	Due to glycosylation, the protein migrates to 35-40 kDa based on Bis-Tris PAGE result.
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage &amp; Stability</b>	Upon receiving, the product remains stable for 6 months at -20°C or below. Upon reconstitution, the product should be stable for 3 months at -80°C. Avoid repeated freeze-thaw cycles.

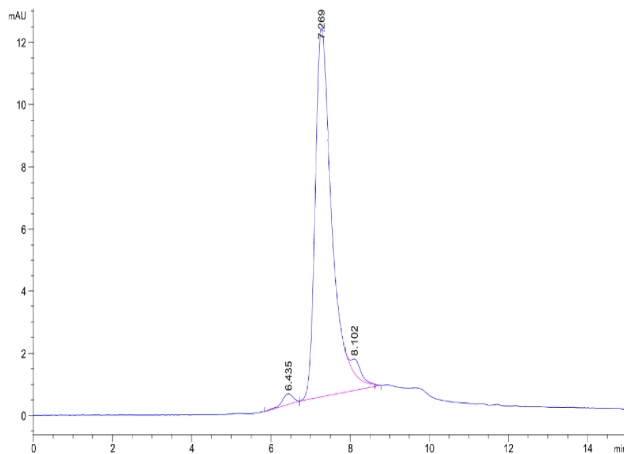
## Examples



APOE3/Apolipoprotein E, His, Human on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



Human TREM2, hFc Tag captured on CM5 Chip via Protein A can bind APOE3/Apolipoprotein E, His, Human, His Tag with an affinity constant of 1.21  $\mu\text{M}$  as determined in SPR assay (Biacore T200) (QC Test).



The purity of APOE3/Apolipoprotein E, His, Human is greater than 90% as determined by SEC-HPLC.

## Background

**Target 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).

**Synonyms :** Apolipoprotein E; Apo-E; APOE; apolipo E; APOE3

**For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.**

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