# Recombinant Human APOL1 Protein

## Catalog No.: RP03217



## Sequence Information

**Species**
Human

**Gene ID**
8542

**Swiss Prot**
Q2KHQ6

**Tags**
C-His

**Synonyms**
APO-L; APOL; APOL-I; APOL1; FSGS4

## Product Information

**Source**
Baculovirus-Insect Cells

**Purification**
≥ 80 % as determined by SDS-PAGE.

**Calculated MW**
42.53 KDa

**Observed MW**
40-45 kDa

**Endotoxin**
< 1 EU/μg of the protein by LAL method.

**Formulation**
Lyophilized from a 0.22 μm filtered solution of 20 mM Tris, 300 mM NaCl, 10% Glycerol, 0.5 mM TCEP, pH 7.5. Contact us for customized product form or formulation.

**Reconstitution**
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Background

APOL1, also known as apolipoprotein L1, is a minor apoprotein component of HDL (High-density lipoprotein) or 'good cholesterol' which is synthesized in the liver and also in many other tissues, including pancreas, kidney, and brain. APOL1 belongs to the apolipoprotein L family. It may play a role in lipid exchange and transport throughout the body. It may also participate in reverse cholesterol transport from peripheral cells to the liver. Defects in APOL1 are the cause of focal segmental glomerulosclerosis type 4 (FSGS4). It is a renal pathology defined by the presence of segmental sclerosis in glomeruli and resulting in proteinuria, reduced glomerular filtration rate and edema. Renal insufficiency often progresses to end-stage renal disease, a highly morbid state requiring either dialysis therapy or kidney transplantation.

## Basic Information

**Description**
Recombinant Human APOL1 Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Leu398) of human APOL1 (Accession #Q2KHQ6) fused with His tag at the C-terminus.

**Activity**

**Shipping**
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

**Storage**
Store at -20℃

**Operational Notes**
For your safety and health, please wear a lab coat and disposable gloves for handling.

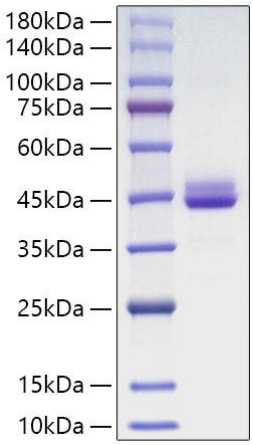
**Contact**

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn



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## Validation Data




Recombinant Human APOL1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.