

# Human ApoA1 Protein (Fc Tag)

Catalog Number: 10686-H02H



**Sino Biological Inc.**

Biological Solution Specialist

## General Information

### Gene Name Synonym:

APOA1, MGC117399

### Protein Construction:

A DNA sequence encoding the pro-form of human APOA1 (CAA26097.1) (Met 1-Gln 267) was fused with Fc region of human IgG1 at the C-terminus.

**Source:** Human

**Expression Host:** Human Cells

## QC Testing

**Purity:** > 95 % as determined by SDS-PAGE

### Bio-Activity

1. Measured by its binding ability in a functional ELISA.
2. Immobilized Human ApoA1 at 10 µg/mL (100 µl/well) can bind? biotinylated human SCARB1, The EC<sub>50</sub> of biotinylated human SCARB1 is 0.37 µg/mL.

### Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Asp 25

### Molecular Mass:

The recombinant human APOA1/Fc is a disulfide-linked homodimeric protein. The reduced monomer consists of 481 amino acids migrates as approximately 55 kDa band in SDS-PAGE under reducing conditions as predicted.

### Formulation:

Lyophilized from sterile 100mM Glycine, 10mM NaCl, 50mM Tris, pH 7.5

Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

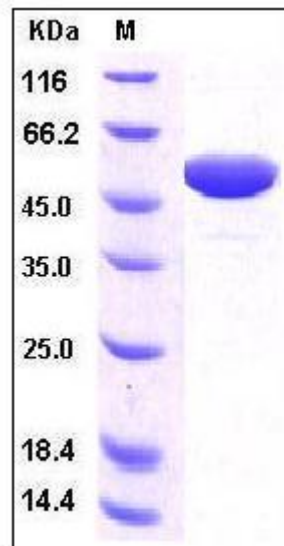
## Usage Guide

### Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

### SDS-PAGE:



### Reconstitution:

Detailed reconstitution

the products.

## Protein Description

Apolipoprotein A-I (ApoA-I) is the major protein component of high density lipoprotein (HDL) in plasma. This protein promotes cholesterol efflux from tissues to the liver and thus helps to clear cholesterol from arteries. Acting as a cofactor for lecithin cholesterolacyltransferase (LCAT), ApoA-I is involved in the formation of most plasma cholesteryl esters. ApoA-I is also identified as a prostacyclin (PGI<sub>2</sub>) stabilizing factor, and thus may have an anti-clotting effect. Defects in this gene resulted in HDL deficiencies, including Tangier disease and systemic non-neuropathic amyloidosis. In addition, it has been shown that ApoA-I is implicated in the anti-endotoxin function of HDL via interaction with lipopolysaccharide or endotoxin.

## References

1. Brewer, H.B. Jr. et al., 1978, Biochem. Biophys. Res. Commun. 80: 623-630.
2. Soutar, A.K. et al., 1992, Proc. Natl. Acad. Sci. U.S.A. 89: 7389-7393.
3. Eggeman, T.L. et al., 1991, J. Lipid Res. 32: 821-828.
4. Voyiaki, E. et al., 1998, J. Lipid Res. 39: 313-321.

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Fax : +86-10-51029969 • Tel: +86-400-890-9989 • <http://www.sinobiological.com>