Datasheet for ABIN7198957

# Apo(a) Protein (Fc Tag)

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## Overview

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| Quantity: | 100 µg |
| Target: | Apo(a) (apo(a)) |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Biological Activity: | Active |
| Purification tag / Conjugate: | This Apo(a) protein is labelled with Fc Tag. |

## Product Details

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| Purpose: | Recombinant Human Apolipoprotein A-I/ApoAI Protein (Fc Tag)(Active) |
| Sequence: | Met 1-Gln 267 |
| Characteristics: | 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. |
| Purity: | > 95 % as determined by reducing SDS-PAGE. |
| Endotoxin Level: | < 1.0 EU per µg as determined by the LAL method. |
| Biological Activity Comment: | Measured by its binding ability in a functional ELISA. Immobilized Human ApoAI at 10 µg/mL (100 µl/well) can bind biotinylated human SCARB1, The EC50 of biotinylated human SCARB1 is 0.37 µg/mL. |

## Target Details

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| Target: | Apo(a) (apo(a)) |

## Target Details

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| Alternative Name: | Apolipoprotein A (apo(a) Products) |
| Background: | Background: Apolipoprotein A1 (APOA1) is a member of the apolipoprotein family whose members are proteins bind with lipids and form lipoproteins to translate these oil-soluble lipids such as fat and cholesterol through lymphatic and circulatory system. APOA1 is the main component of high density lipoprotein (HDL) in plasma and is involved in the esterification of cholesterol as a cofactor of lecithin-cholesterol acyltransferase (LCAT) which is responsible for the formation of most plasma cholesteryl esters, and thus play a major role in cholesterol efflux from peripheral cells. As a major component of the HDL complex, APOA1 helps to clear cholesterol from arteries. APOA1 is also characterized as a prostacyclin stabilizing factor, and thus may have an anticlotting effect. Defects in encoding gene may result in HDL deficiencies, including Tangier disease, and with systemic non-neuropathic amyloidosis. Men carrying a mutation may develop premature coronary artery disease.<br>Synonym: Apolipoprotein A-I, Apo-AI, ApoA-I, Apolipoprotein A1, APOA1 |
| Molecular Weight: | 55 kDa |

## Application Details

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| Comment: | 55 kDa |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Reconstitution: | Please refer to the printed manual for detailed information. |
| Buffer: | Lyophilized from sterile 100 mM Glycine, 10 mM NaCl, 50 mM Tris, pH 7.5 |
| Storage: | 4 °C,-20 °C,-80 °C |
| Storage Comment: | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |