

Recombinant Mouse Apolipoprotein A-I/ApoAI Protein (Fc Tag)



Catalog Number: PKSM040440

Note: Centrifuge before opening to ensure complete recovery of vial contents.

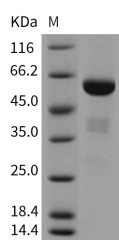
Description

Synonyms	Alp-1;apo-AI;Apoa-1;apoA-I;Brp-14;Ltw-1;Lvtw-1
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Met 1-Gln 264
Accession	Q00623
Calculated Molecular Weight	55.8 kDa
Observed molecular weight	60 kDa
Tag	C-hFc
Bioactivity	Immobilized mouse ApoAI at 10 µg/mL (100 µl/well) can bind biotinylated human SCARB1, The EC50 of biotinylated human SCARB1 is 0.27 µg/mL.

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 90 % as determined by reducing SDS-PAGE.

Background

Apolipoprotein A1 (APOA1) is a member of the apolipoprotein family whose members are proteins bind with lipids and form lipoproteins to transport 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

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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.

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