

Human CellExp™ ApoA-1, human recombinant

CATALOG #:	7403-10	10 µg
ALTERNATE NAMES:	Apolipoprotein A-I, APOA1, MGC117399	
SOURCE:	HEK 293 cells (Asp 25 - Gln 267)	
PURITY:	≥ 95% by SDS-PAGE gel	

MOL. WEIGHT: This protein is fused with polyhistidine tag at the C-terminus, and has a calculated MW of 29 kDa. The predicted N-terminus is Asp 25. DTT-reduced Protein migrates as 26-30 kDa in SDS-PAGE.

ENDOTOXIN LEVEL: <1 EU/µg by LAL method

FORM: Lyophilized

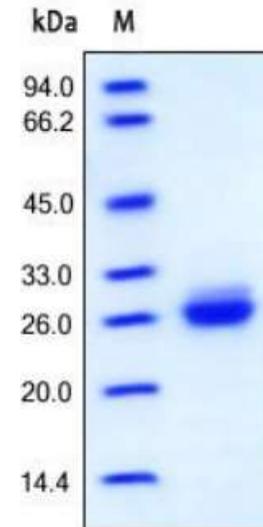
FORMULATION: Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Generally 5-8% Mannitol or trehalose is added as a protectant before lyophilization.

STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.

RECONSTITUTION: Centrifuge the vial prior to opening. Reconstitute in sterile deionized water to a concentration of 50 µg/ml. Solubilize for 30 to 60 min. at RT with occasional gentle mixing. Do not vortex. Carrier protein (0.1% HSA or BSA) is strongly recommended for further dilution and long term storage.

DESCRIPTION: ApoA1 is also known as apolipoprotein A-I, ApoA-I, and is the major protein component of high density lipoprotein (HDL) in plasma. It has a specific role in lipid metabolism. Chylomicrons secreted from the intestinal enterocyte also contain ApoA1 but it is quickly transferred to HDL in the bloodstream. The protein promotes cholesterol efflux from tissues to the liver for excretion. It is a cofactor for lecithin cholesterolacyltransferase (LCAT) which is responsible for the formation of most plasma cholesteryl esters. ApoA-I was also isolated as a prostacyclin (PGI₂) stabilizing factor, and thus may have an anticlotting effect. Defects in the gene encoding it are associated with HDL deficiencies, including Tangier disease, and with systemic non-neuropathic amyloidosis. In addition, it has been shown that ApoA1 is implicated in the anti-endotoxin function of HDL via interaction with lipopolysaccharide or endotoxin.

BIOLOGICAL ACTIVITY: Immobilized Human ApoA1 at 10 µg/mL (100 µl/well) can bind biotinylated human SCARB1. The EC₅₀ of biotinylated human SCARB1 is 10-100 ng/mL.



Human recombinant ApoA-1

RELATED PRODUCTS:

- ApoA-1, human recombinant (Cat # 4693-20, -100, -1000)
- ApoA-1, rat recombinant (Cat # 4695-20, -100, -1000)
- Apo-D, human recombinant (Cat # 4326-10, -1000)
- APO-J / Clusterin (Cat. No. 4325-10, -500)
- Apo-SAA, human recombinant (Cat # 4324-50, -500, -1000)
- ApoE2, human recombinant (Cat # 4760-50, -100, -500, -1000, -5000)
- ApoE3, human recombinant (Cat # 4696-50, -100, -500, -5000)
- ApoE4, human recombinant (Cat # 4699-50, -100, -500, -1000, -5000)
- Apolipoprotein CI, Human Plasma (Cat # 4703-100)
- Apolipoprotein CII, Human Plasma (Cat # 4704-50)
- Apolipoprotein CIII, Human Plasma (Cat # 4706-100)

FOR RESEARCH USE ONLY! Not to be used in humans.