

Recombinant Human APOA1 protein, His-tagged

Cat. No. APOA1-34H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human APOA1 protein (Arg19-Gln267), fused to His tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	249
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 cholesterol acyltransferase (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.
Form	Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 29.8 kDa. The protein migrates as 26-30 kDa

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	under reducing (R) condition (SDS-PAGE).
Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	APOA1
Official Symbol	APOA1
Synonyms	APOA1; apolipoprotein A-I; apo-AI; apoA-I; MGC117399
Gene ID	335
mRNA Refseq	NM_000039
Protein Refseq	NP_000030
MIM	107680

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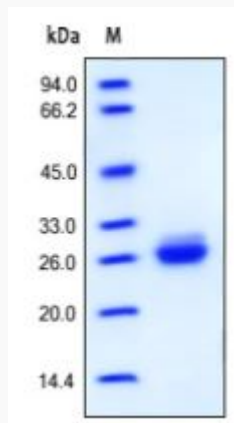
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UniProt ID

P02647

SDS-PAGE of
APOA1-34H



Human Apo-A1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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