

Recombinant Human APOA1 protein

Cat. No. APOA1-698H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human APOA1 protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	243
Description	This gene encodes apolipoprotein A-I, which is the major protein component of high density lipoprotein (HDL) in plasma. The encoded preproprotein is proteolytically processed to generate the mature protein, which promotes cholesterol efflux from tissues to the liver for excretion, and is a cofactor for lecithin cholesterolacyltransferase (LCAT), an enzyme responsible for the formation of most plasma cholesteryl esters. This gene is closely linked with two other apolipoprotein genes on chromosome 11. Defects in this gene are associated with HDL deficiencies, including Tangier disease, and with systemic non-neuropathic amyloidosis. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein.
Form	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.
Molecular Mass	Approximately 28.1 kDa, a single non-glycosylated polypeptide chain containing 243 amino acids.
AA Sequence	DEPPQSPWDRVKDLATVYVDVLKDSGRDYVSQFEGSALGKQLNLKLLDNWDSVTS

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TFSKLREQLG PVTQEFWDNLEKETEG LRQEMSKDLEEVKAKVQPYLDDFQKKWQE
 EMELYRQKVEPLRAELQEGARQKLHELQEKLSPLGEEMRDRARAHVDALRTHLAPY
 SDELRQRLAARLEALKENG GARLAEYHAKATEHLSTLSEKAKPALEDLRQG LLPVLE
 SFKVSFLSALEEYTKKLNTQ

Endotoxin

Less than 0.1 EU/g of rHuApoA-I as determined by LAL method.

Purity

>98% by SDS-PAGE and HPLC analysis.

Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

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

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Protein Refseq	NP_000030
MIM	107680
UniProt ID	P02647

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