

Active Recombinant Rat ApoA1

Cat. No. ApoA1-8446R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant rat ApoA-I is a 27.4 kDa protein of 235 amino acid residues and was expressed in E.coli..
Species	Rat
Source	E.coli
Description	ApoA-I is a 29.0 kDa protein produced in the liver and intestine, and secreted as the predominant constituent of nascent high-density lipoprotein (HDL) particle. ApoA-I, which is found exclusively in HDL, has a unique ability to capture and solubilize free cholesterol. This apoA-I ability enables HDL to remove excess peripheral cholesterol and return it to the liver for recycling and excretion. This process, called reverse cholesterol transport, is thought to inhibit atherogenesis. For this reason HDL is also known as the “good cholesterol.” The therapeutic potential of apoA-I has been recently assessed in patients with acute coronary syndromes, using a recombinant form of a naturally occurring variant of apoA-I (called apoA-I Milano). The availability of recombinant normal apoA-I should facilitate further investigation into the potential usefulness of apoA-I in preventing atherosclerotic Vascular diseases.
Form	Sterile filtered and lyophilized with no additives
Bio-activity	Test in process
Molecular Mass	27.4 kDa

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Endotoxin	<0.1>
Purity	≥98% by SDS - PAGE; ≥98% by HPLC
Storage	The lyophilized ApoA-I is best-stored desiccated below 0°C. Reconstituted ApoA-I should be stored at working aliquots at -20°C.
Reconstitution	Reconstitute in water to a concentration of 0.1-1.0 mg/ml. The solution can then be diluted into other aqueous buffers and store at 4°C for 1 week or -20°C for future use.
Shipping	Blue ice

GENE INFORMATION

Gene Name	Apoa1 apolipoprotein A-I [Rattus norvegicus]
Official Symbol	ApoA1
Synonyms	APOA1; apolipoprotein A-I; apo-AI; apolipoprotein A1; apolipoprotein A-1; preproapolipoprotein A-I; apoA-I;
Gene ID	25081
mRNA Refseq	NM_012738
Protein Refseq	NP_036870
Pathway	African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Fat digestion and absorption, organism-specific biosystem; Fat digestion and absorption, conserved biosystem; PPAR signaling pathway, organism-specific biosystem; PPAR signaling pathway, conserved biosystem; Statin Pathway,

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organism-specific biosystem;

Function

apolipoprotein A-I receptor binding; apolipoprotein receptor binding; beta-amyloid binding; cholesterol binding; cholesterol transporter activity; cholesterol transporter activity; contributes_to cholesterol transporter activity; enzyme binding; high-density lipoprotein particle binding; high-density lipoprotein particle receptor binding; identical protein binding; lipase inhibitor activity; lipid binding; lipid binding; lipid transporter activity; lipoprotein particle binding; phosphatidylcholine-sterol O-acyltransferase activator activity; phospholipid binding; phospholipid transporter activity;

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