



Recombinant Human ApoA-I

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-123S
Size:	20 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	335
Synonyms:	APOA1, Apolipoprotein A-I

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. Recombinant human ApoA-I is a 28.2 kDa protein of 244 amino acid residues.

Sequence

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MDEPPQSPWD RVKDLATVYV DVLKDSGRDY VSQFEGSALG  
KQLNLKLLDN WDSVTSTFSK LREQLGPTQ EFWDNLEKET  
EGLRQEMSKD LEEVKAKVQP YLDDFQKKWQ EEMELYRQKV  
EPLRAELQEG ARQKLHELQE KLSPLGEEMR DRARAHVDAL  
RTHLAPYSDE LRQRLAARLE ALKENGGARL AEYHAKATEH  
LSTLSEKAKP ALEDLRQGLL PVLESEKVSF LSALEEYTKK LNTQ
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Database References

Protein RefSeq:	NP_000030.1
Uniprot ID:	P02647
mRNA RefSeq:	NM_000039.1

Product Specifications

Expressed in	E. coli
Purity	> 97% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	244
MW:	28.2 kDa

Biological Activity: Data not available.



AVOID REPEATED FREEZE AND THAW CYCLES!