

TECHNICAL DATA SHEET

Recombinant Human ApoA-1 (Carrier-Free)

Catalog Number: 21-9194

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human ApoA-1 (Carrier-Free)

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.”

MOLECULAR MASS

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

AMINO ACID SEQUENCE

MDEPPQSPWD RVKDLATVYV DVLKDSGRDY VSQFEGSALG KQLNLKLLDN WDSVTSTFSK LREQLGPTVQ EFWDNLEKET EGLRQEMSKD
LEEYKAKVQP YLDDFQKKWQ EEMELYRQKV EPLRAELQEG ARQKLHELQE KLSPLGEEMR DRARAHVDAL RTHLAPYSDE LRQRLAARLE
ALKENGGARL AEYHAKATEH LSTLSEKAKP ALEDLRQGLL PVLESFKVSF LSALEEYTKK LNTQ

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

97 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE gel.

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

Hamster, Human

BIOACTIVITY

Data not available at this time.

RESEARCH AREAS

Angiogenesis/Cardiovascular

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

van der Westhuyzen, D.R. Serum amyloid a promotes cholesterol efflux mediated by scavenger receptor B-I. 2005. The Journal of Biological Chemistry; 280 (43):35890-5. Cai, H. Serum amyloid a induces monocyte tissue factor. 2007. The Journal of Immunology; 178(3):1852-60.

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