

DATA SHEET

Product Name: Human Apolipoprotein A-I, ApoA-I, Recombinant

Catalog #: A-2014

Source: *E. coli*

Molecular Mass: 28.2 kDa

Protein Purity: >97% by SDS-PAGE
Endotoxin level is <0.1 ng per µg of ApoA-I.

Supplied As: Sterile filtered and lyophilized with no additives

Resuspension: Centrifuge the vial prior to opening. 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.

Storage: The lyophilized ApoA-I is best-stored desiccated below 0°C. Reconstituted ApoA-I should be stored at working aliquots at -20°C.

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

For research use only. Not for use in humans.