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## Recombinant Human ApoA1

**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.

<b>Source:</b>	E. coli
<b>Molecular Weight:</b>	28.2 kDa
<b>Purity:</b>	> 97% by SDS-PAGE and HPLC analyses
<b>Endotoxin level:</b>	< 0.1 ng per µg of ApoA1
<b>Stabilizer:</b>	none
<b>Buffer:</b>	none
<b>Formulation:</b>	lyophilized

**Biological Activity:** Data not available.

**Reconstitution:** The human ApoA1 should be reconstituted in water to a concentration of 0.1-1.0 mg/ml. This solution can be diluted in water or other buffer solutions or stored at -20°C.

**Stability:** The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C. Reconstituted Human ApoA1 should be stored in working aliquots at -20°C. **Avoid repeated freeze-thaw cycles.**

**Usage:** Human ApoA1 offered for research use. Not for drug use. **Not for human use.**

**Catalogue number:** 100-123

**Size:** 100 µg

**\*\*please note: always centrifuge product before opening Vial.\*\***