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Product Information

APOLIPOPROTEIN A-I from Human Plasma

Product No. **A 9284**
Store below 0°C

Product Description

Apolipoprotein A-I (Apo A-I) is one of the major protein components in high density lipoprotein (HDL). It comprises approximately 70% of the protein moiety of HDL. It is a single polypeptide chain consisting of 245 amino acids with glutamic acid at C-terminal and aspartic acid at N-terminal locations^{1,2}. Apo A-I shows a high content of α -helix structure. The amphipathic regions in the α -helix structure seem to be responsible for lipid binding capacity. In aqueous solution Apo A-I shows self-association with minor conformation change³, but it is easily soluble in buffers containing dissociating agent (e.g. 3 M guanidine hydrochloride, 6 M urea or 0.1% SDS). It has been reported that Apo A-I is important for the structure of HDL and it can activate lecithin-cholesterol acyltransferase which is responsible for cholesterol esterification in plasma⁴.

Precautions and Disclaimer

For laboratory use only. Not for drug, household or other uses.

Product Profile

Approximately 97% pure by SDS-PAGE and immunoelectrophoresis. Lyophilized from a solution containing approximately 1 mg protein (Lowry) per ml in 0.01 M ammonium bicarbonate. The molecular weight is reported to be 28,300 dalton⁶. The protein is made up of one major isomorph with pI 5.6 and two minor isomorphs with pI 5.53 and 5.46⁷.

References

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