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ProductInformation

APOLIPOPROTEIN A-I
from Human Plasma

Product Code **A 0722**
Storage Temperature –20 °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 as the C-terminal residue and aspartic acid as the N-terminal residue.[1,2] The molecular weight is reported to be 28.3 kDa.[3] The protein is made up of one major isomorph (pI 5.6) and two minor isomorphs (pI 5.53 and 5.46).[4]

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 change.[5] It is readily soluble in buffer containing an dissociating agent (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 plasma.[6]

The product is supplied as a frozen solution in 10 mM NH_4HCO_3, pH 7.4.

Purity: Minimum 85% (SDS-PAGE)

Precautions and Disclaimer

This item is for laboratory use only, not for drug, household, or other uses. Consult the MSDS for information regarding hazards and safe handling practices.

References

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