

Product Information

APOLIPOPROTEIN A-II from Human Plasma

Product Number **A 0972**

Storage Temperature -20 °C

Product Description

Apolipoprotein A-II (Apo A-II) constitutes approximately 20% of the protein moiety of high density lipoprotein (HDL). It consists of two identical subunits linked by a disulfide bond.⁴ Apo A-II has 77 amino acid residues with glutamine as the C-terminal residue and pyrrolidonecarboxylic acid (PCA) as the N-terminal residue.⁵ The molecular weight is reported to be 17.38 kDa¹ and the pI value is 4.88.^{2,3}

It is readily soluble in buffer containing urea or SDS. In aqueous solutions, it shows self-association to form dimers with an association constant⁶ of $5 \times 10^4 \text{ M}^{-1}$. The association is accompanied by an enhancement of approximately 35% in α -helical content.⁷

Unlike Apo A-I, Apo A-II possesses no activating properties for lecithin-cholesterol acyltransferase (LCAT). Furthermore, it was found that Apo A-II inhibits the activation of LCAT by Apo A-I.^{8,9}

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

Purity: Minimum 95% (SDS-PAGE).

References

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