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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Apolipoprotein A-I, human (HuAPO-A1)

Catalog No: 97405
Lot No: XXXXX
Source: Human HDL
Synonyms: Apolipoprotein A-I, Apo-AI, ApoA-I, APOA1, MGC117399

Background

APOA1 (Apolipoprotein A-1) is a human protein with a specific role in lipid metabolism being the main protein component of HDL in the plasma. APOA1 promotes cholesterol efflux from tissues to the liver for excretion. Furthermore, APOA1 is a cofactor for LCAT, which is responsible for the formation of most plasma cholesteryl esters. In addition, APOA1 activates spermatozoa motility as part of the SPAP complex. The APOA1 gene is strongly linked with two other apolipoprotein genes on chromosome 11. Defects in the APOA1 gene are linked to HDL deficiency including Tangier disease, and with systemic non-neuropathic amyloidosis. High levels of APOA1 are linked to the manifestation of asthma and atopy.

Description

APOA1 human isolated from human HDL is a single, glycosylated, polypeptide chain, having a molecular mass of 28.3 kDa. APOA1 is purified using delipidation and gel permeation chromatographic technique.

Physical Appearance

Sterile filtered colorless solution.

Formulation

The APOA1 1 mg/ml solution contains 10 mM ammonium bicarbonate at pH 7.4.

Stability

APOA1, although stable at 4°C for 1 week, should be stored below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze thaw cycles.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.