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## Product Data Sheet

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Product Name: APOA1  
Cat. No.: GP20047  
Batch No.: 1

### Product Data

Purity	>98%	Source	Human HDL.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Apolipoprotein A-I; Apo-AI; ApoA-I; APOA1; MGC117399.		
Formulation	The APOA1 1mg/ml solution contains 10mM Ammonium Bicarbonate at pH7.4.		

### Introduction

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.

### 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.

### Background

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

**Caution: Product has not been fully validated for medical applications. For research use only.**

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