

## 32-1037: APOA1 Recombinant Protein

**Alternative Name :** Apolipoprotein A-I, Apo-AI, ApoA-I, APOA1, MGC117399.

### Description

Source : Escherichia Coli. Apolipoprotein A-I Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 244 amino acids and having a molecular mass of 28.2kDa. The APOA1 is purified by proprietary chromatographic techniques. 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.

### Product Info

<b>Amount :</b>	100 µg
<b>Purification :</b>	Greater than 97.0% as determined by: (a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
<b>Content :</b>	The APOA1 protein was lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.0.
<b>Storage condition :</b>	Lyophilized Apolipoprotein A-I although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution APOA1 should be stored at 4°C between 2-7 days and for future use 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.
<b>Amino Acid :</b>	MDEPPQSPWD RVKDLATVYV DVLKDSGRDY VSQFEGSALG KQLNLKLLDN WDSVTSTFSK LREQLGPVTQ EFWDNLEKET EGLRQEMSKD LEEVKAKVQP YLDDFQKKWQ EEMELYRQKV EPLRAELQEG ARQKLHELQE KLSPLGEEMR DRARAHVDAL RTHLAPYSDE LRQLAARLE ALKENGGARL AEYHAKATEH LSTLSEKAKP ALEDLRQGLL PVLESFKVSF LSALEEYTKK LNTQ.

### Application Note

It is recommended to reconstitute the lyophilized APOA1 in sterile 18M-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

