

APOA1

Native Human Apolipoprotein A1

Catalog No.	CSI10402A CSI10402B CSI10402C CSI10402D	Quantity:	100 µg 500 µg 1 mg 3 mg
Alternate Names:	ALP-1, APOA, APOA-1, Apo-AI, BRP-14, LTW-1, LVTW-1, SEP-1, SEP-2		
Description:	<p>Apo-AI comprises ~70% of the protein moiety in 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. The molecular mass is reported to be 28.3 kDa. The protein is made up of one major isoform (pI 5.6) and two minor isoforms (pI 5.53 and 5.46). Apo-AI 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-AI shows self-association with minor conformation change. Apo-AI activates lecithin-cholesterol (LCAT) acyltransferase, which is responsible for cholesterol esterification in plasma.</p> <p>Apo-AI levels in normal plasma are 90-130 mg/dl. Apo-AI levels may be inversely related to the risk of coronary disease.</p>		
Concentration:	>0.9 mg/mL		
Gene ID:	335		
Source:	Human Plasma		
Molecular Weight:	28.3 kDa		
Formulation:	<p>Liquid in sterile filtered solution containing 50 mM Tris-HCl + 150 mM NaCl pH 7.4 + 1 mg/mL EDTA + 1 mg/mL Sodium Azide. Precaution: Sodium Azide is a poisonous and hazardous substance which should be handled by trained staff only.</p> <p>Product is stable in aqueous buffers at low concentrations (<50 µg/mL), but due to amphipathic nature, it will self-associate into oligomers at high concentrations in the absence of chaotropes (urea, guanidine hydrochloride). Human APO A1 apolipoprotein Sterile Filtered through a .22 micron hydrophilic filter.</p>		
Purity:	>97% by SDS-PAGE		
Purification:	Human APO A1 apolipoprotein is isolated by ultracentrifugation and delipidated by organic solvents. Human APO A1 Lipoprotein is purified by ion-exchange chromatography.		
Storage & Stability:	Store below -20°C for long term storage. Store at 2-4°C for short term storage. Avoid repeated freeze-thaw cycles.		

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