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Product datasheet for BA051

Apolipoprotein A I / APO AI Human Protein

Product data:

Product Type:	Native Proteins
Description:	Apolipoprotein A I / APO AI human protein, 1 mg
Species:	Human
Protein Source:	Plasma
Concentration:	lot specific
Purity:	>99% pure by SDS-PAGE. **Purification:** The protein was isolated by ultracentrifugal flotation between densities 1.063-1.21 g/ml, lyophilized then subjected to repeated Ethanol extraction. The precipitated protein was dried under nitrogen then dissolved in 6 M Guanidine Hydrochloride -25 mM DTT. The product was then subjected to Sephacryl S200 filtration and eluted.
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 3M Guanidine Hydrochloride, 10 mM Tris, 100 mM Sodium Chloride, 1 mM EDTA, pH 7.4 Preservative: 1 mM Sodium Azide
Preparation:	Liquid purified protein
Applications:	Apo AI can be renatured into PBS, TBS and other common buffers by dialysis using a membrane with a nominal molecular weight cut-off of 14,000 or less. This should be performed in a cold room.
Protein Description:	Human Apolipoprotein AI (APO AI).
Note:	Caution: All human source materials have tested negative for NHCV/NHIV nucleic acid test, HCV antigen; HBsAg, HBcAg, HIV1Ag; and syphilis. No test guarantees a product to be non-infectious. Therefore, all material derived from human fluids or tissues should be considered as potentially infectious.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Storage of dialyzed Apo AI in PBS or TBS with 1 mM EDTA and 0.09% Sodium Azide should be at 2-8°C for up to 2 weeks. Storage of Apo AI in PBS or TBS at -20°C may lead to precipitation when thawed. Avoid repeated freezing and thawing.

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Stability:	Shelf life: one year from despatch.
RefSeq:	NP_000030
Locus ID:	335
Cytogenetics:	11q23.3
Synonyms:	apo(a); HPALP2
Summary:	This gene encodes apolipoprotein A-I, which is the major protein component of high density lipoprotein (HDL) in plasma. The encoded preproprotein is proteolytically processed to generate the mature protein, which promotes cholesterol efflux from tissues to the liver for excretion, and is a cofactor for lecithin cholesterolacyltransferase (LCAT), an enzyme responsible for the formation of most plasma cholesteryl esters. This gene is closely linked with two other apolipoprotein genes on chromosome 11. Defects in this gene are associated with HDL deficiencies, including Tangier disease, and with systemic non-neuropathic amyloidosis. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein. [provided by RefSeq, Dec 2015]
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	PPAR signaling pathway