
Product Data Sheet

Product Name: SAA1 Monkey
 Cat. No.: GP20920
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Serum amyloid A protein; SAA; Amyloid protein A; Amyloid fibril protein AA; SAA1; SAA2; PIG4; TP53I4; MGC111216.		
Amino Acid Sequence	RSWFSFLGEA YDGARDMWRA YSDMKEANYK NSDKYFHARG NYDAAQRGPG GVWAAEVISD ARENIQKLLG RGAEDTLADQ AANEWGRSGK DPNHFRPAGL PEKY.		
Solubility	It is recommended to reconstitute the lyophilized SAA1 in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein was lyophilized with 1x PBS pH-7.4		

Introduction

SAA1 protein is an acute phase apolipoprotein reactant which is produced mostly by hepatocytes and under regulation of inflammatory cytokines. SAA1 (Serum amyloid A1) protein is produced mainly in the liver and circulates in low levels in the blood. The SAA1 seems to have a role in the immune system. SAA1 protein levels increase in the blood and other tissues under conditions of inflammation. SAA1 may facilitate the repair of injured tissues; it also acts as an antibacterial agent, and signals the migration of germ-fighting cells to sites of infection. SAA1 also functions as an apolipoprotein of the HDL complex. Elevated levels of SAA1 ultimately affect secondary amyloidosis, extracellular amassing of amyloid fibrils, resulting from a circulating precursor, in a variety of tissues and organs. The most widespread type of amyloidosis appears secondary to chronic inflammatory disease, mainly rheumatoid arthritis. The SAA1 cleavage product a designated amyloid protein A is deposited systemically as amyloid in vital organs such as the liver, spleen, and kidneys in chronic inflammatory diseases patients. These

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Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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deposits are extremely insoluble and resistant to proteolysis; they disrupt tissue structure and compromise performance.

Biological Activity

Determined by its ability to chemoattract human monocytes using a concentration range of 1.0-10.0 ng/ml.

Stability

Lyophilized SAA1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution SAA1 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.

Background

SAA1 monkey Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 104 amino acids and having a total molecular mass of 11.8 kDa. SAA1 is purified by proprietary chromatographic techniques.

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