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## Product Data Sheet

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Product Name: SAA Human  
 Cat. No.: GP20917  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Amino Acid Sequence	RSFFSFLGEA FDGARDMWRA YSDMREANYI GSDKYFHARG NYDAAKRGPG GVWAAEAISN ARENIQRFFG RGAEDSLADQ AANEWGRSGK DPNHFRPAGL PEKY.		
Solubility	It is recommended to reconstitute the lyophilized SAA Human in sterile 18M-cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Human SAA was lyophilized from a concentrated (1mg/ml) solution in 20mM Tris-HCl, pH 9.0 and 150mM NaCl.		

### Introduction

Serum amyloid A protein which is a member of the SAA family is encoded by the SAA gene in humans. SAA is expressed by the liver and secreted in plasma. Serum amyloid A is the main acute phase reactant and apolipoprotein of the HDL complex. Elevated serum SAA protein levels may be linked with lung cancer. The level of Apo-SAA, which is ordinarily 1-5 µg/ml in plasma, increases 500-1000 fold within 24 hours of an inflammatory stimulus and, under these conditions, is the most abundant HDL Apolipoprotein.

### Biological Activity

The biological activity determined by its ability to down-regulate lipid biosynthesis in aortic smooth muscle cells. The effective concentration was found to be 4?M.

### Stability

Lyophilized Human SAA although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution Human SAA should be stored at 4°C

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

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between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . Please prevent freeze-thaw cycles.

### Background

APO-SAA Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 104 amino acids and having a molecular mass of 11.7kDa. Recombinant Apo-SAA is a consensus SAA molecule corresponding to human Apo-SAA1a, except for the presence of an N-terminal methionine, the substitution of asparagine for aspartic acid at position 60, and arginine for histidine at position 71 (the latter two substituted residues are present in Apo-SAA2b). The Human APO-SAA is purified by proprietary chromatographic techniques.

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