Growth Factor Data Sheet

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SAA1 is a positive acute phase apolipoprotein reactant that associates with HDL. It is expressed predominantly by hepatocytes in the liver and secreted into plasma, but is also expressed and secreted by adipocytes, endothelial cells, and peripheral monocytes. Expression of SAA1 is induced by LPS and by a variety of cytokines such as IL1, IL6, and TNF. Induction causes a dramatic increase of SAA1 levels in blood, indicating that it may play a short-term role in response to injury and inflammation. SAA1 can aggregate into insoluble fibrils that are deposited in various tissues or organs and disrupt normal function, a condition known as amyloidosis. Amyloidosis of SAA1 is associated with rheumatoid arthritis. SAA1 induces the synthesis of a variety of cytokines and proteinases and inhibits proliferation of endothelial cells. When not bound to HDL, it is chemotactic for monocytes, phagocytes, CD4(+) and CD8(+) T-cells, and polymorphonuclear leukocytes. SAA1 is a ligand for CD36/SR-B3, SR-B1, FPRL1, TLR2, and RAGE.

Catalog Number **Product Name**	**2250-01** **SAA1, Rhesus Macaque** Recombinant Rhesus Monkey Serum Amyloid A1 (SAA1) Serum Amyloid A (SAA)
Source	*Escherichia coli*
MW	~11.7 kDa (104 amino acids)
Sequence	RSWFSFLGEA YDGARDMWRA YSDMKEANYK NSDKYFHARG NYDAAQRGPG GVWAAEVISD ARENIQKLLG RGAEDTLADQ AANEWGRSGK DPNHFRPAGL PEKY
Accession Number	F6V9N7
Purity	>97% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human monocytes is in a concentration of 10-100 ng/ml.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.