

# Recombinant Human Serum Amyloid A1

**Cat. No.** SAA1-1403H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human Serum amyloid A protein was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 13.9 kDa (125aa).
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	19-122 a.a.
<b>Description</b>	Serum amyloid A1(SAA1) protein is made primarily in the liver and circulates in low levels in the blood. This protein appears to play a role in the immune system. Levels of this protein increase in the blood and other tissues under conditions of inflammation. SAA1 may help repair damaged tissues, acts as an antibacterial agent, and signal the migration of germ-fighting cells to sites of infection. Elevated levels of SAA over time predispose secondary amyloidosis, extracellular accumulation of amyloid fibrils, derived from a circulating precursor, in various tissues and organs. The most common form of amyloidosis occurs secondary to chronic inflammatory disease, particularly rheumatoid arthritis.
<b>Amino Acid Sequence</b>	MGSSHHHHHH SGLVPRGSH MRSFFSFLGE AFDGARDMWR AYSDMREANY IGSDKYFHAR GNYDAAKRGP GGVWAAEAI S DARENIQRFF GHGAEDSLAD QAANEWGRSG KDPNHFRPAG LPEKY
<b>Form</b>	Liquid. In 20mM Tris buffer(pH 8.0) containing 10% glycerol.

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<b>Purity</b>	> 95% by SDS – PAGE.
<b>Concentration</b>	1 mg/ml (determined by Bradford assay).
<b>Storage</b>	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	SAA1 serum amyloid A1 [ Homo sapiens ]
<b>Synonyms</b>	SAA1; serum amyloid A1; SAA; PIG4; TP53I4; MGC111216; tumor protein p53 inducible protein 4; MGC111216; Serum amyloid A protein; Amyloid protein A; Amyloid fibril protein AA; Serum amyloid protein A(2-104); Serum amyloid protein A(3-104); Serum amyloid protein A(2-102); Serum amyloid protein A(4-101); SAA2
<b>Gene ID</b>	6288
<b>mRNA Refseq</b>	NM_000331
<b>Protein Refseq</b>	NP_000322
<b>MIM</b>	104750
<b>UniProt ID</b>	P02735
<b>Chromosome Location</b>	11p15.1
<b>Function</b>	G-protein-coupled receptor binding

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