

Recombinant Human Serum Amyloid A1, His-tagged

Cat. No. SAA1-5110H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant SAA1 protein was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Protein Length	19-122 aa
Description	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.
Concentration	1 mg/ml
Form	Supplied as a liquid in 20mM Tris buffer, pH 8.0, containing 10% glycerol.
Purity	> 95% by SDS -PAGE

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Sequence	19-122 amino acids:MGSSHHHHHH SSGLVPRGSH MRSFFSFLGE AFDGARDMWR AYSDMREANY IGSDKYFHAR GNYDAAKRGPGGVWAAEAI DARENIQRFF GHGAEDSLAD QAANEWGRSG KDPNHFRPAG LPEKY
Molecular Mass	13.9 kDa(125aa), confirmed by MALDI-TOF.
Applications	SDS-PAGE
Storage	Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or -70 deg C for long term storage. Avoid repeated freeze/thaw cycles.
Official Symbol	SAA1
GENE INFORMATION	
Gene Name	SAA1 serum amyloid A1 [Homo sapiens]
Synonyms	SAA1; serum amyloid A1; SAA; PIG4; SAA2; TP53I4; MGC111216; serum amyloid A protein; OTTHUMP00000232000; OTTHUMP00000232001; OTTHUMP00000236629; tumor protein p53 inducible protein 4
Gene ID	6288
mRNA Refseq	NM_000331
Protein Refseq	NP_000322
MIM	104750
UniProt ID	P02735

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Chromosome Location	11p15.1
Pathway	ActivatedTLR4 signalling; Advanced glycosylation endproduct receptor signaling;Amyloids; Class A/1 (Rhodopsin-like receptors); Folate Metabolism; Formylpeptide receptors bind formyl peptides and many other ligands; G alpha (i)signalling events; GPCR ligand binding; Immune System; Innate ImmunitySignaling; MyD88 dependent cascade initiated on endosome; RIG-I/MDA5 mediatedinduction of IFN-alpha/beta pathways; Selenium Pathway; Toll Like Receptor 10(TLR10) Cascade; Toll Receptor Cascades; Viral dsRNA:TLR3:TRIF ComplexActivates RIP1
Function	G-protein-coupledreceptor binding

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