

Serum Amyloid A Recombinant Protein | SAA1 recombinant protein

Recombinant Human Serum Amyloid A (APO-SAA1), His Tag

CATALOG # AAA38695	HOST E Coli
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PRODUCT SYNONYMS

Serum Amyloid A; Recombinant Human Serum Amyloid A (APO-SAA1); His Tag; SAA1 Human; His; Serum Amyloid A Human Recombinant (APO-SAA1); Serum amyloid A protein; SAA; Amyloid protein A; Amyloid fibril protein AA; SAA1; SAA2; PIG4; TP53I4; MGC111216; SAA1 His; SAA1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	The SAA1 Solution (1mg/ml) contains 20mM Tris buffer (pH8.0) and 10% glycerol. Sterile Filtered colorless solution.
Concentration	1mg/ml (varies by lot)
Sequence	MGSSHHH HHHSSGLVPR GSHMRS FFSFLGEAFD GARDMWRAYS DMREANYIGS DKYFHARGNY DAAKRGPGGV WAAEAISDAR ENIQRFFGHG AEDSLADQAA NEWGRSGKDP NHFRPAGLPE KY
Sequence Length	122
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for SAA1 recombinant protein	Description: SAA1 Human Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain containing 125 amino acids (19-122 a.a.) and having a total molecular mass of 13.9 kDa. SAA1 is fused to a 20 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques. 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 deposits are extremely insoluble and resistant to proteolysis; they disrupt tissue structure and compromise performance.
Product Categories/Family for SAA1 recombinant protein	Cytokines and Growth Factors; Cytokines; Serum Amyloid A

NCBI AND UNIPROT INFORMATION

NCBI GI #	40316912
NCBI GeneID	6288

NCBI Accession #	NP_000322.2
NCBI GenBank Nucleotide #	NM_000331.4
UniProt Accession #	P0DJ18 ; P02735 ; P02736 ; P02737 ; Q16730 ; Q16834 ; Q16835 ; Q16879 ; Q3KRB3 ; Q6FG67 ; Q96QN0 ; Q9UCK9
Molecular Weight	13,532 Da
NCBI Official Full Name	serum amyloid A-1 protein preproprotein
NCBI Official Synonym Full Names	serum amyloid A1
NCBI Official Symbol	SAA1
NCBI Official Synonym Symbols	SAA; PIG4; SAA2; TP53I4
NCBI Protein Information	serum amyloid A-1 protein; serum amyloid A protein; tumor protein p53 inducible protein 4
UniProt Protein Name	Serum amyloid A-1 protein
UniProt Gene Name	SAA1
UniProt Synonym Gene Names	SAA
UniProt Entry Name	SAA1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/saa1-recombinant-protein-e-coli/38695>