

Product datasheet for TP723018

Serum Amyloid A (SAA1) (NM_000331) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human serum amyloid A1 (SAA1), transcript variant 1.
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MRSFFSFLGE AFDGARDMWR AYSDMREANY IGSDKYFHAR GNYDAAKRGP GGWAAEAI NARENIQRFF GRGAEDSLAD QAANEWGRSG KDPNHFRPAG LPEKY
Tag:	Tag Free
Predicted MW:	12 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a 0.2 μM filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Bioactivity:	Tested by its ability to down-regulate lipid biosynthesis in aortic smooth muscle cells. The effective concentration was found to be 4 μM.* * Schreiber, BM. et al. Biochem J. 1999 Nov 15; 344 Pt 1:7-13
Endotoxin:	Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg)
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_000322
Locus ID:	6288
UniProt ID:	P02735 , P0DJ18
RefSeq Size:	678
Cytogenetics:	11p15.1
RefSeq ORF:	366
Synonyms:	PIG4; SAA; SAA2; TP53I4



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Summary:

This gene encodes a member of the serum amyloid A family of apolipoproteins. The encoded preproprotein is proteolytically processed to generate the mature protein. This protein is a major acute phase protein that is highly expressed in response to inflammation and tissue injury. This protein also plays an important role in HDL metabolism and cholesterol homeostasis. High levels of this protein are associated with chronic inflammatory diseases including atherosclerosis, rheumatoid arthritis, Alzheimer's disease and Crohn's disease. This protein may also be a potential biomarker for certain tumors. Finally, antimicrobial activity against *S. aureus* and *E. coli* resides in the N-terminal portion of the mature protein. Alternate splicing results in multiple transcript variants that encode the same protein. A pseudogene of this gene is found on chromosome 11. [provided by RefSeq, Jul 2020]

Product images: