

OriGene Technologies, Inc.

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# 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 GGVWAAEAIS 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 $\mu M$ 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 uM.* * 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:	<u>NP 000322</u>
Locus ID:	6288
UniProt ID:	<u>P02735, P0DJI8</u>
RefSeq Size:	678
Cytogenetics:	11p15.1
RefSeq ORF:	366
Synonyms:	PIG4; SAA; SAA2; TP53I4

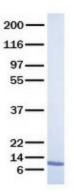


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#### **GRIGENE** Serum Amyloid A (SAA1) (NM\_000331) Human Recombinant Protein – TP723018

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

#### **Product images:**



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