

# Recombinant human Serum Amyloid A1/SAA1 protein

Catalog Number: ATGP0373

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

19-122aa

### UniProt No.

P0DJ18

### NCBI Accession No.

AAI05797

### Alternative Names

SAA1, serum amyloid A1, PIG4, TP53I4, SAA, Tumor protein p53 inducible protein 4, Amyloid fibril protein AA

## PRODUCT SPECIFICATION

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### Molecular Weight

13.9 kDa (125aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing, 10% glycerol

### Purity

> 95% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### 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

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disease, particularly rheumatoid arthritis. Recombinant Serum amyloid A protein was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MRSFFSFLGE AFDGARDMWR AYSDMREANY IGSDKYFHAR GNYDAAKRGPGGVWAAEAI S DARENIQRFF GHGAEDSLAD QAANEWGRSG KDPNHFRPAG LPEKY

## General References

Betts JC., et al. (1991) *Scand J Immunol.* 34(4):471-82.  
Yilmaz E., et al. (2003) *Turk J Pediatr.* 45(3):198-202.

## DATA

### SDS-PAGE

3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

