Recombinant human Serum Amyloid A1/SAA1 protein

Catalog Number: ATGP0373

PRODUCT INFORMATION

Expression system
E.coli

Domain
19-122aa

UniProt No.
P0DJI8

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

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

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

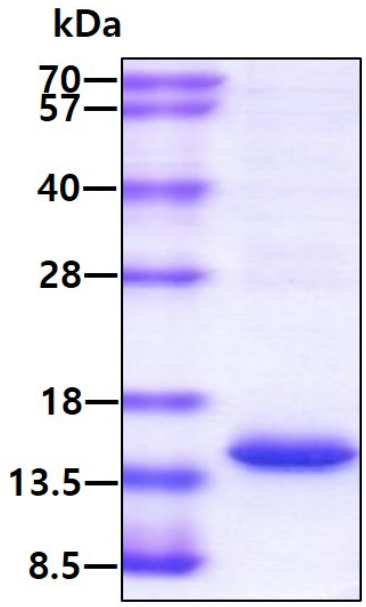
<MGSSHHHHHH SSGLVPRGSH> MRSFFSFLGE AFDGARDMWR AYSDMREANY IGSDKYFHAR GNYDAAKRGP GGVWAAEAIS DARENIQRFF GHGAEDSLAD QAANEWGRSG KDPNHFRPAG LPEKY

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



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.