

Recombinant Human SAA1 Protein, His-tagged

Cat. No. SAA1-6233H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SAA1 Protein(Arg19~Tyr122), fused with N-terminal His tag, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Arg19~Tyr122
Tag	N-His
Form	20mM Tris, 150mM NaCl, pH8.0, containing 0.01% skl, 5% Trehalose.
Bio-activity	Serum Amyloid A (SAA) is a class of 104 amino acid conservative acute-phase proteins, which is essential in immune-mediated inflammatory processes, like IBD. SAA has dual roles in the inflammatory process, which it can stimulates the pro-inflammatory cytokine expression and promotes the pathogenic differentiation of TH17 cells. In addition, SAA can remove toxic lipids produced during inflammatory responses and membrane debris from dead cells, redirect HDL, and recycle cholesterol for tissue repair. Besides, C Reactive Protein (CRP) has been identified as an interactor of SAA, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human SAA and recombinant human CRP. Briefly, SAA were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to CRP-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-SAA

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pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µL stop solution to the wells and read at 450 nm immediately. The EC50 for this effect is 5.3 ug/mL.

Molecular Mass	12.9kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	>95%
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (PH8.0) to a concentration of 0.1-1.0mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	SAA1 serum amyloid A1 [Homo sapiens]
Official Symbol	SAA1
Synonyms	SAA1; serum amyloid A1; SAA; serum amyloid A protein; PIG4; TP53I4; tumor protein p53 inducible protein 4; SAA2; MGC111216;
Gene ID	6288
mRNA Refseq	NM_000331

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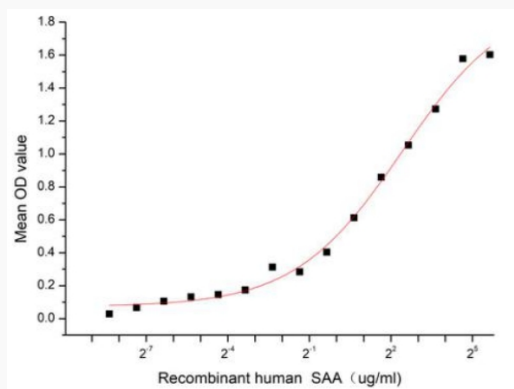
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Protein Refseq NP_000322

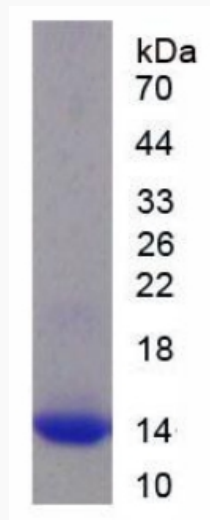
MIM 104750

UniProt ID P02735

Activity



SDS-PAGE



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