

## Recombinant Human SAA1, His-tagged

**Cat. No.** SAA1-31166TH **Lot. No.** (See product label)

### SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant full length Human Serum Amyloid A fused to a His tag at the N terminal; 125 amino acids, MWt 13.9 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>             | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>        | This gene encodes a member of the serum amyloid A family of apolipoproteins. The encoded 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, Alzheimers disease and Crohn s disease. This protein may also be a potential biomarker for certain tumors. Alternate splicing results in multiple transcript variants that encode the same protein. A pseudogene of this gene is found on chromosome 11. |
| <b>Conjugation</b>        | HIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Tissue specificity</b> | Expressed by the liver; secreted in plasma.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Form</b>               | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>             | >95% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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|                                 |                                                                                                                                                 |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage buffer</b>           | Preservative: None<br>Constituents: 10% Glycerol, 20mM Tris buffer, pH 8.0                                                                      |
| <b>Storage</b>                  | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.                                         |
| <b>Sequences of amino acids</b> | MGSSHHHHHH SSGLVPRGSH MRSFFSFLGE AFDGARDMWR AYSDMREANY<br>IGSDKYFHAR GNYDAAKRGP GGVWAAEAIS DARENIQRFF GHGAEDSLAD<br>QAANEWGRSG KDPNHFRPAG LPEKY |
| <b>Sequence Similarities</b>    | Belongs to the SAA family.                                                                                                                      |
| <b>Full Length</b>              | Full L.                                                                                                                                         |

## GENE INFORMATION

|                        |                                                                     |
|------------------------|---------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">SAA1 serum amyloid A1 [ Homo sapiens ]</a>              |
| <b>Official Symbol</b> | <a href="#">SAA1</a>                                                |
| <b>Synonyms</b>        | SAA1; serum amyloid A1; SAA; serum amyloid A protein; PIG4; TP53I4; |
| <b>Gene ID</b>         | <a href="#">6288</a>                                                |
| <b>mRNA Refseq</b>     | <a href="#">NM_000331</a>                                           |
| <b>Protein Refseq</b>  | <a href="#">NP_000322</a>                                           |
| <b>MIM</b>             | <a href="#">104750</a>                                              |
| <b>Uniprot ID</b>      | <a href="#">P02735</a>                                              |

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|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 11p15.1                                                                                                                                                                                                                                                                                              |
| <b>Pathway</b>             | Activated TLR4 signalling, organism-specific biosystem; Advanced glycosylation endproduct receptor signaling, organism-specific biosystem; Amyloids, organism-specific biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Folate Metabolism, organism-specific biosystem; |
| <b>Function</b>            | G-protein coupled receptor binding;                                                                                                                                                                                                                                                                  |

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