Recombinant Human SAA protein

Cat. No. SAA-61H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SAA protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	104
Description	Serum amyloid A protein which belongs to the SAA family is encoded by the SAA gene in humans. It is expressed by the liver and secreted in plasma. Serum amyloid A is the major acute phase reactant and apolipoprotein of the HDL complex. Elevated serum SAA protein levels may be associated with lung cancer. The level of Apo-SAA, normally 1-5 μg/ml in plasma, increases 500-1000 fold within 24 hours of an inflammatory stimulus and, under these conditions, is the most abundant HDL Apo-lipoprotein. Recombinant human Apo-SAA1 is an 11.7 kDa protein containing 104 amino acid residues.
Form	Lyophilized from a 0.2μm filtered concentrated solution in 20 mM Tris-HCl, pH 9.0, 150 mM NaCl.
Bio-activity	Fully biologically active when compared to standard. The biological activity determined by its ability to down-regulate lipid biosynthesis in aortic smooth muscle cells. The effective concentration was found to be 4 μM.
Molecular Mass	Approximately 11.7 kDa, a single non-glycosylated polypeptide chain containing 104

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	amino acids.
AA Sequence	RSFFSFLGEAFDGARDMWRAYSDMREANYIGSDKYFHARGNYDAAKRGPGGVWAAEAISNARENIQRFFGRGAEDSLADQAANEWGRSGKDPNHFRPAGLPEKY
Purity	>98% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	SAA
Official Symbol	SAA
Gene ID	6288
mRNA Refseq	NM_000331
Protein Refseq	NP_000322
MIM	104750

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UniProt ID	P0DJI8

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