



Recombinant Human Apo-SAA

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-127
Size:	50 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	6288
Synonyms:	Apo-SAA

Human Apo-SAA is a 104 amino acid polypeptide that circulates primarily in association with high-density lipoproteins (HDL). 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 Apolipoprotein. The human SAA gene codes for a 122 amino acid polypeptide, which contains an 18 amino acid N-terminal signal sequence. Recombinant Apo-SAA is a consensus SAA molecule corresponding to human Apo-SAA1alpha except for the presence of an N-terminal methionine and substitution of asparagine for aspartic acid at position 60 and arginine for histidine at position 71 (the last two substituted residues are present in apo-SAA2beta).

Sequence

MRSFFSFLGE AFDGARDMWR AYSDMREANY IGSDKYFHAR
GNYDAAKRGP GGVWAAEAI S NAREN IQRFF GRGAEDSLAD
QAANEWGRSG KDPNHFRPAG LPEKY

Database References

Protein RefSeq:	NP_000322.2
Uniprot ID:	P0DJ18
mRNA RefSeq:	NM_000331.4

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	104
MW:	~11.4 kDa

Biological Activity: Tested by its ability to down-regulate lipid biosynthesis in aortic smooth muscle cells. The effective concentration was found to be 4 µM.



AVOID REPEATED FREEZE AND THAW CYCLES!