Apo-SAA Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: ,

Cat. No.:

RBG100640010	(10 µg)
RBG100640050	(50 µg)
RBG100641000	(1mg)

Description

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, the substitution of asparagine for aspartic acid at position 60, and arginine for histidine at position 71 (the latter two substituted residues are present in Apo-SAA2beta). The calculated molecular weight of Recombinant Human Apo-SAA is 11.7 kDa.

Research topic

Cardiovascular disease

Amino Acid Sequence

MRSFFSFLGE AFDGARDMWR AYSDMREANY IGSDKYFHAR GNYDAAKRGP GGVWAAEAIS NARENIQRFF GRGAEDSLAD QAANEWGRSG KDPNHFRPAG LPEKY

Source

E. coli

Purity

98%

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.* * Schreiber, BM. et al. Biochem J. 1999 Nov 15; 344 Pt 1:7-13

Storage, Stability/Shelf Life

-20°C

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