9051 Mira Mesa Blvd, #910094
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SAA Human

Serum Amyloid A (APO-SAA) Human Recombinant
CYK0518

Product Overview

Name	SAA Human

Description

Serum Amyloid A (APO-SAA) Human Recombinant

Introduction

Serum amyloid A protein which is a member of the SAA family is encoded by the SAA gene in humans. SAA is expressed by the liver and secreted in plasma. Serum amyloid A is the main acute phase reactant and apolipoprotein of the HDL complex. Elevated serum SAA protein levels may be linked with lung cancer. The level of Apo-SAA, which is ordinarily 1-5 ?g/ml in plasma, increases 500-1000 fold within 24 hours of an inflammatory stimulus and, under these conditions, is the most abundant HDL Apolipoprotein.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

Human SAA was lyophilized from a concentrated (1mg/ml) solution in 20mM Tris-HCl, pH 9.0 and 150mM NaCl.

Stability

Lyophilized Human SAA although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Human SAA should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Purity

Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

RSFFSFLGEA FDGARDMWRA YSDMREANYI GSDKYFHARG NYDAAKRGPG GVWAAEAISN ARENIQRFFG RGAEDSLADQ AANEWGRSGK DPNHFRPAGL PEKY.

Biological Activity

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.

Solubility

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It is recommended to reconstitute the lyophilized SAA Human in sterile 18M-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

SAA Human is for research use only and not for use in diagnostic or therapeutic procedures.