

Apo-SAA, human recombinant protein

Information

Gene ID	6288
Accession #	P0DJ18
Alternate Names	MGC111216, PIG4, TP5314
Source	<i>Escherichia coli</i> .
M.Wt	Approximately 11.7 kDa, a single non-glycosylated polypeptide chain containing 104 amino acids.
AA Sequence	RSFFSFLGEA FDGARDMWRA YSDMREANYI GSDKYFHARG NYDAAKRGPG GVWAAEAI SN ARENIQRFFG RGAEDSLADQ AANEWGRSGK DPNHFRPAGL PEKY
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - Refer to lot specific COA for the Use by Date when stored at ≤ -20 °C as supplied. - 1 month, 2 to 8 °C under sterile conditions after reconstitution. - 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Formulation	Lyophilized from a 0.2 μ m filtered concentrated solution in 20 mM Tris-HCl, pH 9.0, 150 mM NaCl.
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 °C. Further dilutions should be made in appropriate buffered solutions.
Biological 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 μ M.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	10 μ g	100 μ g	500 μ g
Apo-SAA, human recombinant protein	10 μ g	100 μ g	500 μ g

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Quality Control

Purity	> 98 % by SDS-PAGE and HPLC analyses.
Endotoxin	

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.

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