

Recombinant Human Apolipoprotein-Serum Amyloid A

#R00560

Size: 10 µg/100 µg/500 µg

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °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.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

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.

AA Sequence

RSFFSFLGEAFDGMWRAYSMDREANYIGSDKYF
HARGNYDAAKRGPGGVWAAEAISNARENIQRFFGR
GAEDSLADQAANEWGRSGKDPNHFRPAGLPEKY

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.

Product Specification

Accession	AAA64799.1
GeneID	6288
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 11.7 kDa, a single non-glycosylated polypeptide chain containing 104 amino acids.
Purity	> 98 % by SDS-PAGE and HPLC analyses.
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 µM.

Physical	Sterile Filtered White lyophilized
Appearance	(freeze-dried) powder.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM Tris-HCl, pH 9.0, 150 mM NaCl.