

Recombinant Human Apolipoprotein-Serum Amyloid A1 (rHuApo-SAA1) ChemWhat Technical Data Sheet (TDS)

Catalog Number:	602-26
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 11.7 kDa, a single non-glycosylated polypeptide chain containing 104 amino acids.
Quantity:	10µg/50µg/1000µg
AA Sequence:	RSFFSFLGEA FDGARDMWRA YSDMREANYI GSDKYFHARG NYDAAKRGPG GVWAAEAISD ARENIQRFFG HGAEDSLADQ AANEWGRSGK DPNHFRPAGL PEKY
Purity:	> 98 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The biological activity determined by a chemoattract bioassay using human monocytes is in a concentration range of 10-100 ng/ml.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm 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.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 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.
Usage:	ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. NOT FOR HUMAN USE.

Human Apolipoprotein-Serum Amyloid A1

Serum amyloid A-1 protein which belongs to the SAA family is encoded by the SAA1 gene in humans. It is expressed by the liver and secreted in plasma. Serum amyloid A-1 is the major acute phase reactant and apolipoprotein of the HDL complex. Elevated serum SAA1 protein levels may be associated with lung cancer. The level of Apo-SAA1, 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.