

Recombinant Rhesus Macaque Serum Amyloid A Protein-1 (rRhSAA1)

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	215-01
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 11.7 kDa, a single non-glycosylated polypeptide chain containing 104 amino acids.
Quantity:	2µg /10µg /1000µg
AA Sequence:	RSWFSFLGEA YDGARDMWRA YSDMKEANYK NSDKYFHARG NYDAAQRGPG GVWAAEVISD ARENIQKLLG RGAEDTLADQ AANEWGRSGK DPNHFRPAGL PEKY
Purity:	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis 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 PBS, pH 7.4.
Endotoxin:	Less than 1 EU/µg of rRhSAA1 as determined by LAL method.
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">● 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.
Usage:	ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. NOT FOR HUMAN USE.

Rhesus Macaque Serum Amyloid A protein-1

Serum Amyloid A protein-1 belongs to the SAA family of apolipoproteins that circulates in association with high-density lipoproteins (HDL). It is a multifunctional protein produced by hepatocytes in response to pro-inflammatory cytokines. SAA1 is a ligand for CD36/SR-B3, SR-B1, FPRL1, TLR2, and RAGE on monocytes/macrophages, inducing chemotaxis and generation of cytokines and tissue factor. It also can bind the surface of invading gram-negative bacteria, acting as an opsonin to aid clearance by macrophages. Additionally, SAA1 binds platelets, probably by engaging fibrinogen on the platelet surface.