

Recombinant Rhesus Macaque Serum Amyloid A1

(Rhesus Macaque SAA1)

Product Information

Product Name	Cat#	Size
	92540ES10	10 µg
Recombinant Rhesus Macaque Serum Amyloid A1 (Rhesus Macaque SAA1)	92540ES60	100 µg
	92540ES76	500 µg

Product Description

Serum Amyloid A protein-1 belongs to the SAA family of apolipoproteins that circulates in association with high-density lipoproteins (HDL). Mature mouse SAA1 shares 72%, 72% and 67% amino acid (aa) sequence identity with human, rabbit and equine SAA1, respectively. SAA1 and SAA2 share 113 of their 122 amino acids and are termed A-SAA (acute phase SAA). SAA1 is produced in the liver in both human and mouse. SAA1 is prominently produced in human adipose tissue, but is absent in mouse adipose, which instead expresses adipose SAA3 (a pseudogene in humans). 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. SAA1 can bind the surface of invading gram-negative bacteria, acting as an opsonin to aid clearance by macrophages. SAA1 also binds platelets, probably by engaging fibrinogen on the platelet surface.

Product Properties

Synonyms	MGC111216, PIG4, SAA, SAA1, SAA2, serum amyloid A protein, Serum Amyloid A1, TP5314
Accession	F6V9N7
GeneID	694827
Source	E.coli-derived rhesus macaque SAA1 protein, Arg19-Tyr122.
Molecular Weight	Approximately 11.7 kDa.
AA Sequence	RSWFSFLGEA YDGARDMWRA YSDMKEANYK NSDKYFHARG NYDAAQRGPG GVWAAEIVISD ARENIQKLLG RGAEDTLADQ AANEWGRSGK DPNHFRPAGL PEKY
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	>97% by SDS-PAGE and HPLC analyses.
Biological Activity	The biological activity determined by a chemotaxis bioassay using human monocytes is in a concentration range of 10-100 ng/mL. Fully biologically active when compared to standard.
Endotoxin	< 1.0 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
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 and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!