

Recombinant Rhesus Macaque Serum Amyloid A1

#R00407

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-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.

AA Sequence

RSWFSFLGEAYDGARDMWRAYSDMKEANYKNSDKY
FHARGNYDAAQRGPGGVWAAEVISDARENIQKLLGR
GAEDTLADQAANEWGRSGKDPNHFRPAGLPEKY

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

Synonyms	Amyloid fibril protein AA
Accession	F6V9N7
GeneID	694827
Species	Rhesus
Source	Escherichia coli.
Molecular Weight	Approximately 11.7 kDa, a single non-glycosylated polypeptide chain containing 104 amino acids.
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	Sterile Filtered White lyophilized
Appearance	(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.