

Active Recombinant Rhesus Macaque SAA1 Protein (104 aa)

Cat. No. SAA1-001S Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant Rhesus Macaque SAA1 Protein without tag was expressed in E. coli. |
| Species | Rhesus macaque |
| Source | E.coli |
| ProteinLength | 104 |
| Description | Serum amyloid A proteins (SAA) represents a family of apolipoproteins that circulates in association with high-density lipoproteins (HDL). 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. |
| Form | Sterile Filtered White lyophilized (freeze-dried) powder. |
| Bio-activity | Fully biologically active when compared to standard. Determined by its ability to chemoattract human monocytes using a concentration range of 1.0-10.0 ng/mL, corresponding to a Specific Activity of 1×10^5 IU/mg. |
| Molecular Mass | Approximately 11.8 kDa, a single non-glycosylated polypeptide chain containing 104 amino acids. |
| AA Sequence | RSWFSFLGEAYDGARDMWRAYSMDKEANYKNSDKYFHARGNYDAAQRGPGGVW AAEVIDDARENIQKLLGRGAEDTLADQAANEWGRSGKDPNHFRPAGLPEKY |

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| Endotoxin | Less than 1 EU/μg of rRhSAA1 as determined by LAL method. |
| Purity | >97% by SDS-PAGE and HPLC analyses. |
| Storage | This lyophilized preparation is stable at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 to -70 centigrade. Avoid repeated freeze/thaw cycles. |
| Storage Buffer | 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 < -20C. Further dilutions should be made in appropriate buffered solutions. |

GENE INFORMATION

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| Gene Name | SAA1 serum amyloid A1 [<i>Bos taurus</i> (cattle)] |
| Official Symbol | SAA1 |
| Synonyms | SAA1; serum amyloid A1; serum amyloid A1 |
| Gene ID | 616035 |

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