

## Recombinant Monkey SAA1

CATALOG #:	4332-10	10 µg
	4332-50	50 µg
	4332-1000	1 mg
LOT #:	_____	
SYNONYMS:	Serum amyloid A protein, SAA, Amyloid protein A, Amyloid fibril protein AA, SAA1, SAA2, PIG4, TP53I4, MGC111216	
SOURCE:	<i>E. coli</i>	
PURITY:	> 97 % by SDS-PAGE and RP-HPLC	
FORM:	Lyophilized from a sterile filtered solution containing PBS pH 7.4	

### RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in sterile ddH<sub>2</sub>O to a concentration ≥ 100 µg/ml. This solution can then be diluted into other aqueous buffers.

### STORAGE CONDITIONS:

The lyophilized protein is best-stored desiccated at -20°C. Reconstituted monkey SAA1 should be stored at 4°C for 2-7 days and at -20°C for future use. For long term storage it is recommended to add a carrier protein (0.1 % HSA or BSA). Avoid freeze/thaw cycles.

### DESCRIPTION:

SAA1 protein is an acute phase apolipoprotein reactant which is produced mostly by hepatocytes and under regulation of inflammatory cytokines. SAA1 (Serum amyloid A1) protein is produced mainly in the liver and circulates in low levels in the blood. The SAA1 seems to have a role in the immune system. SAA1 protein levels increase in the blood and other tissues under conditions of inflammation. SAA1 may facilitate the repair of injured tissues; it also acts as an antibacterial agent, and signals the migration of germ-fighting cells to sites of infection. SAA1 also functions as an apolipoprotein of the HDL complex. Elevated levels of SAA1 ultimately affect secondary amyloidosis, extracellular amassing of amyloid fibrils, resulting from a circulating precursor, in a variety of tissues and organs. The most widespread type of amyloidosis appears secondary to chronic inflammatory disease, mainly rheumatoid arthritis. SAA1 monkey recombinant produced in *E. Coli* is a single, non-glycosylated, polypeptide chain containing 104 amino acids and having a total molecular mass of 11.8 kDa. SAA1 is purified by proprietary chromatographic techniques.

### AMINO ACID SEQUENCE:

RSWFSFLGEA YDGARDMWRA YSDMKEANYK NSDKYFHARG NYDAAQRGPG  
GVWAAEIVSD ARENIQKLLG RGAEDTLADQ AANEWGRSGK DPNHFRPAGL PEKY

### BIOLOGICAL ACTIVITY:

Determined by its ability to chemoattract human monocytes using a concentration range of 1.0-10.0 ng/ml.

### RELATED PRODUCTS:

#### Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

#### Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

#### Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

#### Lipid Metabolism

#### Apolipoproteins

- Apolipoprotein B
- Apolipoprotein C I
- Apolipoprotein C II
- Apolipoprotein C III

#### Growth Factors and Cytokines

#### Monoclonal and Polyclonal Antibodies

- APP Antibody
- Calsenlin Antibody
- Presenilin 1 Antibody
- Presenilin 2 Antibody

**FOR RESEARCH USE ONLY! Not to be used on humans.**