



## Recombinant Protein Technical Manual

**Recombinant Human SAA2/Serum Amyloid A2  
Protein (His Tag)**  
RPES5036

### Product Data:

**Product SKU:** RPES5036

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** AAH20795.1

### Protein Information:

**Molecular Mass:** 13.2 kDa

**AP Molecular Mass:** 14 kDa

**Tag:** N-6His

**Bio-activity:**

**Purity:** > 95% as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, 1mM EDTA, pH 7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** SAA; SAA2; Serum Amyloid A2

## Immunogen Information:

**Sequence:** Arg19-Tyr122

## Background:

Serum amyloid A-2 protein (SAA2) belongs to the SAA family. It is expressed by the liver and secreted in plasma. SAA2 functions as a major acute phase reactant and could work as an apolipoprotein of the HDL complex. Increased levels of A-SAA in serum are indicative of inflammatory disease. When highly expressed, SAA can displace ApoA1 as the major apolipoprotein in HDL complexes, weakening the function of HDL as a reverse (lipid clearing) cholesterol transporter. A highly charged region of SAA2 and SAA1 (aa 36-68) contains putative fibronectin- and laminin-binding motifs. This region also binds heparin sulfate proteoglycans at mildly acidic pH and promotes aggregation of A-SAA.