

## Serum Amyloid A-1 Protein, Mouse

<b>Cat. No.:</b>	HY-P79122
<b>Synonyms:</b>	Serum amyloid A-1 protein; Saa1
<b>Species:</b>	Mouse
<b>Source:</b>	E. coli
<b>Accession:</b>	P05366 (G20-Y122)
<b>Gene ID:</b>	20208
<b>Molecular Weight:</b>	Approximately 11 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>G F F S F V H E A F    Q G A G D M W R A Y    T D M K E A N W K N    S D K Y F H A R G N</p> <p>Y D A A Q R G P G G    V W A A E K I S D G    R E A F Q E F F G R    G H E D T I A D Q E</p> <p>A N R H G R S G K D    P N Y Y R P P G L P    D K Y</p>
<b>Biological Activity</b>	Measured by its ability to induce TNF-alpha secretion by J774A.1 mouse reticulum cell sarcoma macrophage cells. The ED <sub>50</sub> for this effect is 1.5-7.5 µg/mL.
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>Serum Amyloid A-1 Protein emerges as a significant acute phase protein, existing primarily as a homohexamer composed of dimers of trimers. While it has the potential to form amyloid fibrils after partial proteolysis, it's noteworthy that the native, undenatured form of the protein does not exhibit amyloid fibril formation in vitro. Additionally, Serum Amyloid A-1 serves a crucial role as an apolipoprotein within the HDL complex and demonstrates affinity for heparin binding, underscoring its multifaceted nature in biological processes.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA