

SAA1 Protein, Mouse (His)

Cat. No.:	HY-P700309
Synonyms:	Serum Amyloid A-1 Protein; SAA; SAA1
Species:	Mouse
Source:	E. coli
Accession:	P05366 (G20-Y122)
Gene ID:	20208
Molecular Weight:	Approximately 13-17 kDa

PROPERTIES

AA Sequence	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 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 A N R H G R S G K D P N Y Y R P P G L P D K Y
Biological Activity	Measured by its ability to induce TNF-alpha secretion by J774A.1 mouse reticulum cell sarcoma macrophage cells. The ED ₅₀ for this effect is 4.689 µg/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0 or PBS, pH 7.4, 8% trehalose.
Endotoxin Level	<1 Eu/ug, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	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.
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Caution: Product has not been fully validated for medical applications. For research use only.

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