

Serum amyloid A-3 protein/Saa3 Protein, Mouse (P.pastoris, His)

Cat. No.:	HY-P71809
Synonyms:	Saa3; Serum amyloid A-3 protein
Species:	Mouse
Source:	P. pastoris
Accession:	P04918 (R20-Y122)
Gene ID:	20210
Molecular Weight:	Approximately 15 kDa

PROPERTIES

AA Sequence	R W V Q F M K E A G Q G S R D M W R A Y S D M K K A N W K N S D K Y F H A R G N Y D A A R R G P G G A W A A K V I S D A R E A V Q K F T G H G A E D S R A D Q F A N E W G R S G K D P N H F R P A G L P K R Y
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0 or PBS, 6% Trehalose, pH 7.4.
Endotoxin Level	<1 EU/μg, 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-3 Protein, also known as Saa3, emerges as a significant acute phase reactant with a pivotal role in the body's response to acute physiological challenges. As a crucial apolipoprotein within the high-density lipoprotein (HDL) complex, Saa3 contributes to the regulation of lipid metabolism, highlighting its multifaceted involvement in maintaining homeostasis. Notably, in vitro studies reveal its antimicrobial activity against Escherichia coli, Streptococcus uberis, and Pseudomonas aeruginosa, suggesting a potential role in the innate immune defense against bacterial pathogens. This dual functionality underscores the diverse and essential contributions of Saa3 in both the acute phase response and antimicrobial defense mechanisms.
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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

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