

Serpin A3C Protein, Mouse (HEK293, His)

Cat. No.:	HY-P77195
Synonyms:	Serine protease inhibitor A3C; Kallikrein-binding protein; KBP; Klkbp
Species:	Mouse
Source:	HEK293
Accession:	P29621 (D23-A417)
Gene ID:	16625
Molecular Weight:	Approximately 55-70 & 115 kDa

PROPERTIES

AA Sequence	<pre> D G T L E R D T L F H K D K E N G T Q L D S L T L A S I N T D F A F S L Y K K L A L K N P D T N I V F S P L S I S A A L A I V S L G A K G N T L E E I L E G L N F N L T E T P E A D I H Q G F G H L L Q R L S H P G E Q V Q I S T G S A L F V E K H L Q I L A E F Q E K A R A L Y Q A E A F T A D F Q Q P L E A T K L I N D Y V S N Q T Q R K I K G L I S D L D T D T L M V L V N Y I Y F K G K W K M P F N P R D T F E S E F Y L D V K R S V K V P M M K I K T L T T P Y F R D E E L S C T V V E L K Y K G N A S A L F I L P D Q G R M Q Q V E A S L Q P E T L R K W K N S L R P R K M G E L Y L P K F S I S T D Y S L K N I L P E L G I K E I F S K Q A D L S G I T G T K D L I V S Q M V H K A V L D V A E T G T E G V A A T G V N F R I L S R R T S L W F N R T F L M V I S H T D V Q T T L F I A K I T H P K R A </pre>
Biological Activity	Measured by its binding ability in a functional ELISA. When Recombinant Mouse SerpinA3C is present at 10 µg/mL, can bind Anti-SerpinA3c Antibody. The ED ₅₀ for this effect is 5.374 ng/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, 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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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

Serpin A3C protein features a reactive center loop (RCL) that protrudes from its main body, guiding its interaction with target proteases. Upon binding, the protease cleaves the serpin at the reactive site within the RCL, forming a durable and covalent serpin-protease complex. This complex, marked by the inactivation of the protease, exhibits remarkable stability. The distinct sequences within the RCL of Serpina3 paralogs contribute to the variability, potentially influencing the specificity of target protease interactions.

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

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