

Serpin A10 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P76639
Synonyms:	Protein Z-Dependent Protease Inhibitor; PZ-Dependent Protease Inhibitor; PZI; Serpin A10; SERPINA10; ZPI
Species:	Mouse
Source:	HEK293
Accession:	Q8R121-1 (F22-L448)
Gene ID:	217847
Molecular Weight:	Approximately 75-95 kDa

PROPERTIES

AA Sequence	<pre> F N L S S H S P E A S V H L E S Q D Y E N Q T W E E Y T R T D P R E E E E E E E E K E E G K D E E Y W L R A S Q Q L S N E T S S F G F N L L R K I S M R H D G N V I F S P F G L S V A M V N L M L G T K G E T K V Q I E N G L N L Q A L S Q A G P L I L P A L F K K V K E T F S S N R D L G L S Q G S F A F I H K D F D I K E T Y F N L S K K Y F D I E Y V S I N F Q N S S Q A R G L I N H C I V K E T E G K I P K L F D E I N P E T K L I L V D Y V L F K G K W L T P F D P S F T E A D T F H L D K Y R A I K V P M M Y R E G N F T S T F D K K F R C H I L K L P Y Q G N A T M L V V L M E K T G D Y L A L E D Y L T V D L V E T W L Q N M K T R K M E V F F P K F K L N Q R Y E M H E L L K Q M G I R R L F S T S A D L S E L S A M A R N L Q V S R V L Q Q S V L E V D E R G T E A V S G T L S E I I A Y S M P P A I K V N R P F H F I I Y E E M S R M L L F L G R V V N P T V L </pre>
Biological Activity	Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH ₂ . The IC ₅₀ value is 27.513 nM, as measured under the described conditions.
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 A10, functioning as an inhibitor, exerts its regulatory role by inhibiting the activity of the coagulation protease factor Xa in the presence of PROZ, calcium, and phospholipids. Additionally, it demonstrates inhibitory effects on factor XIa even in the absence of cofactors, showcasing its versatility in modulating key components of the coagulation cascade.

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

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