

Serpin I2 Protein, Human (HEK293, His)

Cat. No.:	HY-P71039
Synonyms:	SERPINI2; Serpin I2; Myoepithelium-derived serine protease inhibitor; Pancreas-specific protein TSA2004; Peptidase inhibitor 14; PI-14; MEPI; PI14;
Species:	Human
Source:	HEK293
Accession:	O75830 (S19-L405)
Gene ID:	5276
Molecular Weight:	44-60 kDa

PROPERTIES

AA Sequence	<pre> S R C S A Q K N T E F A V D L Y Q E V S L S H K D N I I F S P L G I T L V L E M V Q L G A K G K A Q Q Q I R Q T L K Q Q E T S A G E E F F V L K S F F S A I S E K K Q E F T F N L A N A L Y L Q E G F T V K E Q Y L H G N K E F F Q S A I K L V D F Q D A K A C A E M I S T W V E R K T D G K I K D M F S G E E F G P L T R L V L V N A I Y F K G D W K Q K F R K E D T Q L I N F T K K N G S T V K I P M M K A L L R T K Y G Y F S E S S L N Y Q V L E L S Y K G D E F S L I I I L P A E G M D I E E V E K L I T A Q Q I L K W L S E M Q E E E V E I S L P R F K V E Q K V D F K D V L Y S L N I T E I F S G G C D L S G I T D S S E V Y V S Q V T Q K V F F E I N E D G S E A A T S T G I H I P V I M S L A Q S Q F I A N H P F L F I M K H N P T E S I L F M G R V T N P D T Q E I K G R D L D S L </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 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 I2 contains a Met-Ser within the reactive centre loop which is also found in anti-trypsin. Serpin I2 deficiency in mice caused pancreatic insufficiency and acinar cell apoptosis, resulting in a stunted pequeno phenotype with immune cell
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defects and reduced life span^[1].

Serpin I2 polymorphisms increase susceptibility to refractive error. Serpin I2 is a promising candidate for further investigations of the genetic susceptibility to myopia. Serpin I2 is involved in acinar cells of the pancreas and may be important to control glucose metabolism^[2].

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

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