

## Serpin E2 Protein, Mouse (HEK293, His)

<b>Cat. No.:</b>	HY-P71294
<b>Synonyms:</b>	Glia-derived nexin; GDN; Peptidase inhibitor 7; PI-7; Protease nexin 1; PN-1; Protease nexin I; Serine protease-inhibitor 4; Serpin E2; Pi7; Pn1; Spi4
<b>Species:</b>	Mouse
<b>Source:</b>	HEK293
<b>Accession:</b>	Q07235 (S20-P397)
<b>Gene ID:</b>	20720
<b>Molecular Weight:</b>	Approximately 48 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>S Q F N S L S L E E      L G S N T G I Q V F      N Q I I K S R P H E      N V V V S P H G I A</p> <p>S I L G M L Q L G A      D G K T K K Q L S T      V M R Y N V N G V G      K V L K K I N K A I</p> <p>V S K K N K D I V T      V A N A V F L R N G      F K M E V P F A V R      N K D V F Q C E V Q</p> <p>N V N F Q D P A S A      S E S I N F W V K N      E T R G M I D N L L      S P N L I D G A L T</p> <p>R L V L V N A V Y F      K G L W K S R F Q P      E S T K K R T F V A      G D G K S Y Q V P M</p> <p>L A Q L S V F R S G      S T R T P N G L W Y      N F I E L P Y H G E      S I S M L I A L P T</p> <p>E S S T P L S A I I      P H I T T K T I D S      W M N T M V P K R M      Q L V L P K F T A V</p> <p>A Q T D L K E P L K      A L G I T E M F E P      S K A N F T K I T R      S E S L H V S H I L</p> <p>Q K A K I E V S E D      G T K A S A A T T A      I L I A R S S P P W      F I V D R P F L F S</p> <p>I R H N P T G A I L      F L G Q V N K P</p>
<b>Biological Activity</b>	Data is not available.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

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**Background**

Serpin E2, a serine protease inhibitor, exhibits inhibitory activity against thrombin, trypsin, and urokinase. Notably, it plays a role in promoting neurite extension by specifically inhibiting thrombin, emphasizing its involvement in neurodevelopmental processes. Additionally, Serpin E2 is recognized for its ability to bind heparin, showcasing its interaction with this important glycosaminoglycan. The multifaceted inhibitory functions of Serpin E2 underscore its significance in regulating serine protease activities and its potential impact on cellular processes, particularly in the context of neurodevelopment.

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

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