

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

<b>Cat. No.:</b>	HY-P71085
<b>Synonyms:</b>	Glia-derived Nexin; GDN; Peptidase inhibitor 7; PI-7; Protease nexin 1; PN-1; Protease nexin I; Serpin E2; SERPINE2; PI7; PN1
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P07093-2 (S20-P397)
<b>Gene ID:</b>	5270
<b>Molecular Weight:</b>	Approximately 50.0 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> S H F N P L S L E E   L G S N T G I Q V F   N Q I V K S R P H D   N I V I S P H G I A S V L G M L Q L G A   D G R T K K Q L A M   V M R Y G V N G V G   K I L K K I N K A I V S K K N K D I V T   V A N A V F V K N A   S E I E V P F V T R   N K D V F Q C E V R N V N F E D P A S A   C D S I N A W V K N   E T R D M I D N L L   S P D L I D G V L T R L V L V N A V Y F   K G L W K S R F Q P   E N T K K R T F V A   A D G K S Y Q V P M L A Q L S V F R C G   S T S A P N D L W Y   N F I E L P Y H G E   S I S M L I A L P T E S S T P L S A I I   P H I S T K T I D S   W M S I M V P K R V   Q V I L P K F T A V A Q T D L K E P L K   V L G I T D M F D S   S K A N F A K I T R   S E N L H V S H I L 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 F I R H N P T G A V L   F M G Q I N K P           </pre>
<b>Biological Activity</b>	Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate Mca-RPKPVE-Nval-WRK(Dnp)-NH2 at room temperature for 30 minutes. The IC <sub>50</sub> value is 0.306 nM.
<b>Appearance</b>	Solution
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 150 mM NaCl, pH 8.0 or 20 mM PB, 150 mM NaCl, 10% Glycerol, 8% Sucrose, 0.05% Tween 80, pH 7.0 or 20 mM NaAc, 150 mM NaCl, pH 5.0, 10% Glycerol.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	N/A
<b>Storage &amp; Stability</b>	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
<b>Shipping</b>	Shipping with dry ice

### DESCRIPTION

---

**Background**

Serpin E2, a serine protease inhibitor, exhibits inhibitory activity towards thrombin, trypsin, and urokinase. Notably, it plays a role in promoting neurite extension by specifically inhibiting thrombin activity. Through its interactions with thrombin, serpin E2 contributes to the regulation of proteolytic processes involved in various cellular functions. Additionally, the protein demonstrates binding affinity for heparin, suggesting its involvement in interactions with glycosaminoglycans and potentially modulating its activity in the context of cellular signaling or other biological processes.

---

**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](mailto:tech@MedChemExpress.com)

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