

Neuroserpin Protein, Mouse (HEK293, His)

Cat. No.:	HY-P74703
Synonyms:	Neuroserpin; Peptidase inhibitor 12; Serpin I1; SERPIN11
Species:	Mouse
Source:	HEK293
Accession:	O35684 (T17-L410)
Gene ID:	20713
Molecular Weight:	Approximately 45-58 kDa due to the glycosylation

PROPERTIES

AA Sequence	<p>T G A T F P D E T I T E W S V N M Y N H L R G T G E D E N I L F S P L S I A L A</p> <p>M G M M E L G A Q G S T R K E I R H S M G Y E G L K G G E E F S F L R D F S N M</p> <p>A S A E E N Q Y V M K L A N S L F V Q N G F H V N E E F L Q M L K M Y F N A E V</p> <p>N H V D F S Q N V A V A N S I N K W V E N Y T N S L L K D L V S P E D F D G V T</p> <p>N L A L I N A V Y F K G N W K S Q F R P E N T R T F S F T K D D E S E V Q I P M</p> <p>M Y Q Q G E F Y Y G E F S D G S N E A G G I Y Q V L E I P Y E G D E I S M M L A</p> <p>L S R Q E V P L A T L E P L L K A Q L I E E W A N S V K K Q K V E V Y L P R F T</p> <p>V E Q E I D L K D I L K A L G V T E I F I K D A N L T A M S D K K E L F L S K A</p> <p>V H K S C I E V N E E G S E A A A A S G M I A I S R M A V L Y P Q V I V D H P F</p> <p>L Y L I R N R K S G I I L F M G R V M N P E T M N T S G H D F E E L</p>
Biological Activity	Measured in a cell proliferation assay using rat C6 cells. The ED ₅₀ for this effect is 0.894 µg/mL, corresponding to a specific activity is 1.118×10 ^[3] units/mg.
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

Neuroserpin, a serine protease inhibitor, plays a crucial role in inhibiting plasminogen activators and plasmin, with no inhibitory effect on thrombin. Beyond its role as a protease inhibitor, it is implicated in the formation or reorganization of synaptic connections, contributing to synaptic plasticity in the adult nervous system. Additionally, there is a suggested protective role for neuroserpin in safeguarding neurons from cell damage mediated by tissue-type plasminogen activator. These functions underscore the significance of neuroserpin in regulating proteolytic activities and maintaining neuronal integrity in the intricate network of synaptic processes.

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

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