

Neuroserpin Protein, Human (CHO)

Cat. No.:	HY-P7270
Synonyms:	rHuNeuroserpin; Peptidase inhibitor 12; Serpin I1; SERPINI1
Species:	Human
Source:	CHO
Accession:	Q99574 (T17-L410)
Gene ID:	5274
Molecular Weight:	40-45 kDa

PROPERTIES

AA Sequence	<p>T G A T F P E E A I A D L S V N M Y N R L R A 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 Q K E I R H S M G Y D S L K N G E E F S F L K E F S N M</p> <p>V T A K E S Q Y V M K I A N S L F V Q N G F H V N E E F L Q M M K K Y F N A A V</p> <p>N H V D F S Q N V A V A N Y I N K W V E N N T N N L V K D L V S P R D F D A A T</p> <p>Y 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</p>
Biological Activity	The ED ₅₀ determined by a cell proliferation assay using rat C6 cells. The ED ₅₀ for this effect is ≤ 2.218 µg/mL, corresponding to a specific activity of ≥ 450.857 units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS or 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	< 0.2 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 is a member of the serpin family of serine protease inhibitors predominantly expressed in the nervous system. Neuroserpin plays an important role in synaptic plasticity and memory formation in the hippocampus. Neuroserpin expression is particularly prominent at late stages of neuronal development in most regions of the central nervous system
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(CNS), whereas it is restricted to regions related to learning and memory in the adult brain^[1].

REFERENCES

[1]. Reumann R, et al. The serine protease inhibitor neuroserpin is required for normal synaptic plasticity and regulates learning and social behavior. Learn Mem. 2017 Nov 15;24(12):650-659.

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

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