

## 32-20425: Recombinant Human Neuroserpin(Discontinued)

**Reactivity :** Rat

**Alternative Name :** Serpin I1, Protease inhibitor 12

### Description

**Source:** *E. coli* Neuroserpin is an inhibitory serpin that is expressed predominantly in the central nervous system. Although the physiological target of neuroserpin is still unclear, cumulative evidence suggests that it plays an important role in controlling proteolytic degradation of extracellular matrix (ECM) during synaptogenesis, and the subsequent development of neuronal plasticity. In the adult brain, neuroserpin is secreted from the growth cones of neurons in areas where synaptic changes are associated with learning and memory (i.e. cerebral cortex, hippocampus, and amygdala.) The neuroprotective role of neuroserpin has been demonstrated in transgenic mice lacking neuroserpin expression. The deficiency of neuroserpin in these mice was associated with motor neuron disease characterized by axonal degradation. In humans, defects in neuroserpin, caused by point mutations in the neuroserpin gene, underlie a hereditary disorder called the familial encephalopathy with neuroserpin inclusion bodies (FENIB). Recombinant Human Neuroserpin is a 44.8 kDa non-glycosylated protein containing 395 amino-acid residues.

### Product Info

**Amount :** 5 µg / 25 µg

**Purification :** Purity: >= 96% by SDS-PAGE gel and HPLC analyses.

**Content :** This recombinant protein is supplied in lyophilized form.

**Amino Acid :** MTGATFPEEA IADLSVNMVN RLRATGEDEN ILFSPLSIAL AMGMMEGAQ GSTQKEIRHS MGYDSLKNGE  
EFSFLKEFSN MVTAKESQYV MKIANSLFVQ NGFHVNEEFL QMMKKYFNAA VNHVDFSQNV AVANYINKWV  
ENNTNNLVKD LVSPRDFDAA TYLALINAVY FKGNWKSQFR PENTRTFSFT KDDSEVQIP MMYQQGEFYY  
GEFSDGSNEA GGIYQVLEIP YEGDEISMML VLSRQEVPLA TLEPLVKAQL VEEWANSVKK QKVEVYLPRF  
TVEQEIDLKD VLKALGITEI FIKDANLTGL SDNKEIFLSK AIHKSFLEVN EEGSEAAAVS GMIAISRMAY  
LYPQVIVDHP FFFLIRNRRT GTILFMGRVM HPETMNTSGH DFEEL