

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 AMGMELGAQ GSTQKEIRHS MGYDSLKNGE
EFSFLKEFSN MVTAKESQYV MKIANSLFVQ NGFHVNEEFL QMMKKYFNAA VNHVDFSQNV AVANYINKWV
ENNTNNLVKD LVSPRDFDAA TYLALINAVY FKGWKSQFR PENTRTFSFT KDDSEVQIP MMYQQGEFYY
GEFSDGSNEA GGIYQVLEIP YEGDEISMML VLSRQEVPLA TLEPLVKAQL VEEWANSVKK QKVEVYLPRF
TVEQEIDLKD VLKALGITEI FIKDANLTGL SDNKEIFLSK AIHKSFLEVN EEGSEAAAVS GMIAISRMAV
LYPQVVDHP FFLIRNRRT GTILFMGRVM HPETMNTSGH DFEEL