Datasheet for ABIN2018280

Neuroserpin Protein (AA 17-410)

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Overview

Quantity:	50 µg
Target:	Neuroserpin (SERPINI1)
Protein Characteristics:	AA 17-410
Origin:	Human
Source:	CHO Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 2 µg/mL, measured by the dose-dependent stimulation of the proliferation of rat C6 cells, corresponding to a specific activity of > 500 units/mg.
Purity:	> 95 % as analyzed by SDS-PAGE and HPLC.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	Neuroserpin (SERPINI1)
Alternative Name:	Neuroserpin (SERPINI1 Products)
Background:	Neuroserpin is an inhibitory serpin that is expressed predominantly in central nervous system. Although the physiological target of neuroserpin is still unclear, cumulative evidence suggest 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

Target Details

	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). Synonyms: Serpin I1, Protease inhibitor 12
Molecular Weight:	40-45 kDa, observed by non-reducing SDS-PAGE.
UniProt:	Q99574
Pathways:	Regulation of Hormone Metabolic Process

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstituted in ddH2O or PBS at 100 µg/mL.
Buffer:	Lyophilized after extensive dialysis against PBS.
Storage:	-80 °C
Storage Comment:	Lyophilized recombinant Human Neuroserpin remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rh_Neuroserpin should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.
Expiry Date:	6 months