

Active Recombinant Human SERPINI1 protein, Tag Free

Cat. No. SERPINI1-214S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SERPINI1 Protein without tag was expressed in CHO.
Species	Human
Source	CHO
ProteinLength	17-410 a.a.
Description	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 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).
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 2

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	μg/mL, measured by the dose-dependent stimulation of the proliferation of rat C6 cells, corresponding to a specific activity of > 500 units/mg.
Molecular Mass	40-45 kDa, observed by non-reducing SDS-PAGE.
AA Sequence	TGATFPEEAIADLSVNMYNRLRATGEDENILFSPLSIALAMGMELGAQGSTQKEIR HSMGYDSLKNGEEFSFLKEFSNMVTAKESQYVMKIANSLFVQNGFHVNEEFLQMM KKYFNAAVNHVDFSQNVAVANYINKWVENNTNNLVKDLVSPRDFDAATYLALINAVY FKGNWKSQFRPENTRTFSFTKDDSEVQIPMMYQQGEFYIGEFS DGSNEAGGIYQ VLEIPYEGDEISMMLVLSRQEVPLATLEPLVKAQLVEEWANSVKKQKVEVYLPRFTV EQEIDLKDV LKALGITEIFIKDANLTGLSDNKEIFLSKAIHKS FLEVNEEGSEAAAVSGM IAISRMVLYPQVIVDHPFFFLIRNRRTGTILFMGRVMHPETMNTSGHDFEEL
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Storage	Lyophilized recombinant Human Neuroserpin remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rh_Neuroserpin should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μg/mL.
GENE INFORMATION	
Gene Name	SERPINI1 serpin peptidase inhibitor, clade I (neuroserpin), member 1 [Homo sapiens]
Official Symbol	SERPINI1

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Synonyms	SERPINI1; serpin peptidase inhibitor, clade I (neuroserpin), member 1; PI12, serine (or cysteine) proteinase inhibitor, clade I (neuroserpin), member 1; neuroserpin; PI-12; serpin I1; peptidase inhibitor 12; serine (or cysteine) proteinase inhibitor, clade I (neuroserpin), member 1; PI12; DKFZp781N13156;
Gene ID	5274
mRNA Refseq	NM_001122752
Protein Refseq	NP_001116224
MIM	602445
UniProt ID	Q99574

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