

Active Recombinant Human SERPINI1 protein, Tag Free

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

SPECIFICATION

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| Product Overview | Recombinant Human SERPINI1 Protein without tag was expressed in CHO. |
| Species | Human |
| Source | CHO |
| ProteinLength | 17-410 a.a. |
| Description | <p>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).</p> |
| 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

TGATFPEEAIADLSVNMYNRLRATGEDENILFSPLSIALAMGMMELGAQGSTQKEIR
 HSMGYDSLKNGEEFSFLKEFSNMVTAKESQYVMKIANSLFVQNGFHVNEEFLQMM
 KKYFNAAVNHVDFSQNVAVANYINKWVENNTNNLVKDLVSPRDFDAATYLALINAVY
 FKGNWKSQFRPENTRTFSFTKDDSEVQIPMMYQQGEFYGFSDGSNEAGGIYQ
 VLEIPYEGDEISMMLVLSRQEVPLATLEPLVKAQLVEEWANSVKKQKVEVYLPRFTV
 EQEIDLKDV LKALGITEIFIKDANLTGLSDNKEIFLSKAIHKSFLEVNEEGSEAAVSGM
 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 ddH₂O 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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