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SERPINI1 Human

Serpin Peptidase Inhibitor, Clade I Member 1 Human Recombinant
RCP2061

Product Overview

Name	SERPINI1 Human

Description

Serpin Peptidase Inhibitor, Clade I Member 1 Human Recombinant

Accession (Primary)	Q99574

Synonyms

Neuroserpin, Peptidase inhibitor 12, PI-12, Serpin I1, SERPINI1, PI12.

Introduction

SERPINI1 (Neuroserpin) is an inhibitory serpin which is expressed primarily in the central nervous system. Even though the physiological target of SERPINI1 is still vague, amassed evidence suggest that SERPINI1 has an imperative role in controlling proteolytic degradation of extracellular matrix (ECM) during synaptogenesis and the subsequent development of neuronal plasticity. The neuroprotective role of SERPINI1 has been demonstrated in transgenic mice lacking SERPINI1 expression. The deficiency of SERPINI1 in these mice is linked with motor neuron disease characterized by axonal degradation. In humans, defects in SERPINI1, caused by point mutations in the neuroserpin gene, trigger a hereditary disorder known as the familial encephalopathy with neuroserpin inclusion bodies (FENIB).

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

The protein was Lyophilized from a 0.2 μm filtered concentrated solution in 1×PBS, pH 7.4.

Stability

Lyophilized SERPINI1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution SERPINI1 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Purity

Greater than 97.0% as determined by (a) Analysis by HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

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MTGATFPEEA IADLSVNMYN RLRATGEDEN ILFSPLSIAL AMGMMELGAQ GSTQKEIRHS MGYDSLKNGE EFSFLKEFSN MVTAKESQYV MKIANSLFVQ NGFHVNEEFL QMMKKYFNAA VNHVDFSQNV AVANYINKWV ENNTNNLVKD LVSPRDFDAA TYLALINAVY FKGNWKSQFR PENTRTFSFT KDDESEVQIP MMYQQGEFYY GEFSDGSNEA GGIYQVLEIP YEGDEISMML VLSRQEVPLA TLEPLVKAQL VEEWANSVKK QKVEVYLPRF TVEQEIDLKD VLKALGITEI FIKDANLTGL SDNKEIFLSK AIHKSFLEVN EEGSEAAAVS GMIAISRMAV LYPQVIVDHP FFFLIRNRRT GTILFMGRVM HPETMNTSGH DFEEL.

Biological Activity

Determined by the dose-dependent stimulation of the proliferation of rat C6 cells using a concentration range of 0.3-0.6 µg/ml.

Solubility

It is recommended to reconstitute the lyophilized SERPINI1 in sterile 18M-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

SERPINI1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q99574)