

SERPINI1

Recombinant Human Serpin I1 / Neuroserpin (His Tag)

Catalog No.	CRH619A-His CRH619B-His CRH619C-His	Quantity:	20 µg 50 µg 1.0 mg
Alternate Names:	Neuroserpin, Peptidase inhibitor 12, PI-12, Serpin I1		
Description:	Neuroserpin is a serine protease inhibitor that inhibits plasminogen activators and plasmin but not thrombin. Serine protease inhibitors of the serpin superfamily are involved in many cellular processes. Neuroserpin was first identified as a protein secreted from the axons of dorsal root ganglion neurons. Neuroserpin is predominantly expressed in the brain, and is expressed in the late stages of neurogenesis during the process of synapse formation. Overexpression of neuroserpin in an anterior pituitary corticotroph cell line results in the extension of neurite-like processes, suggesting that neuroserpin may play a role in cell communication, cell adhesion, and/or cell migration. Neuroserpin may be involved in the formation or reorganization of synaptic connections, as well as synaptic plasticity in the adult nervous system. Neuroserpin may also protect neurons from cell damage by tissue-type plasminogen activator. Defects of neuroserpin are the cause of familial encephalopathy with neuroserpin inclusion bodies (FEN1B).		
UniProt ID:	Q99574		
Accession Number:	NP_005016.1		
Protein Construction:	A DNA sequence encoding the human SERPINI1 (Met 1-Leu 410) was expressed, with a C-terminal polyhistidine tag.		
Source:	HEK293 Cells		
Formulation:	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Molecular Weight:	The secreted rhSerpinI1 consists of 405 amino acids after removal of the signal peptide with a predicted MW of 46 kDa. In SDS-PAGE under reducing conditions, rhSerpinI1 migrates at ~50-55 kDa due to glycosylation.		
Purity:	> 95 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method		
Biological Activity:	Testing in progress		
Predicted N-terminal:	Thr 17		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		
Storage & Stability:	Stable for up to 1 year from date of receipt at -20°C to -80°C After reconstitution, store working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		

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