

For Research Use Only

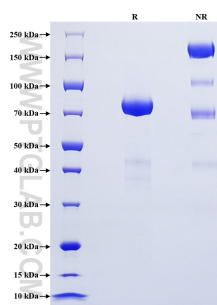
Recombinant Human Neuroserpin protein (rFc Tag)



Catalog Number: Eg2819

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	<p>Purity: >90 %, SDS-PAGE</p> <p>Endotoxin Level: <0.1 EU/ μg protein, LAL method</p> <p>Source: HEK293-derived Human Neuroserpin protein Thr17-Leu410 (Accession# Q99574) with a rabbit IgG Fc tag at the C-terminus.</p> <p>GeneID: 5274</p> <p>Accession: Q99574</p> <p>Predicted Molecular Mass: 70.7 kDa</p> <p>SDS-PAGE: 75-90 kDa, reducing (R) conditions</p> <p>Formulation: Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p>Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none">• Until expiry date, -20°C to -80°C as lyophilized proteins.• 3 months, -20°C to -80°C under sterile conditions after reconstitution. <p>Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>Neuroserpin is a member of the serpin family of serine protease inhibitors predominantly expressed in the nervous system, such as the cerebral cortex, hippocampus and the spinal cord. Neuroserpin exerts protective effects in neurons against excitotoxicity both in vitro and in vivo. Its proteolytic inhibitory activity is shown to protect neurons against damage caused by plasmin activation. Mice overexpressing neuroserpin exhibited loss of tPA activity in the brain. Overexpression of neuroserpin in primary neurons leads to increased dendritic arborization and altered dendritic spine shape.</p>		
References	<ol style="list-style-type: none">1. Yang X, Fang Z, et al. (2022) Seizure. 103:137-147.2. Matsuda Y, Miura K, et al. (2016) Cancer Sci. 107(5):619-28.3. Mirshahvaladi S, Chitranshi N, et al. (2024) Proteomes. 12(1):7.4. Ranza E, Garcia-Tarodo S, et al. (2017) Am J Med Genet A. 173(9):2456-2460.		
Synonyms	Serp11, Neuroserpin, Peptidase inhibitor 12, PI 12, PI12		

Selected Validation Data



Purity of Recombinant Human Neuroserpin was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.