

Recombinant Human SERPINI1 protein, His & T7-tagged

Cat. No. SERPINI1-8003H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SERPINI1 aa. (Thr17~Leu410 (Accession # Q99574)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Thr17~Leu410
Description	This gene encodes a member of the serpin superfamily of serine proteinase inhibitors. The protein is primarily secreted by axons in the brain, and preferentially reacts with and inhibits tissue-type plasminogen activator. It is thought to play a role in the regulation of axonal growth and the development of synaptic plasticity. Mutations in this gene result in familial encephalopathy with neuroserpin inclusion bodies (FENIB), which is a dominantly inherited form of familial encephalopathy and epilepsy characterized by the accumulation of mutant neuroserpin polymers. Multiple alternatively spliced variants, encoding the same protein, have been identified.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 48.4kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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Characteristic	The isoelectric point is 4.8.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	SERPINI1 serpin family I member 1 [Homo sapiens (human)]
Official Symbol	SERPINI1
Synonyms	SERPINI1; serpin family I member 1; PI12; neuroserpin; PI-12; peptidase inhibitor 12; serine (or cysteine) proteinase inhibitor, clade I (neuroserpin), member 1; serpin I1; serpin peptidase inhibitor clade I member 1; serpin peptidase inhibitor, clade I (neuroserpin), member 1
Gene ID	5274

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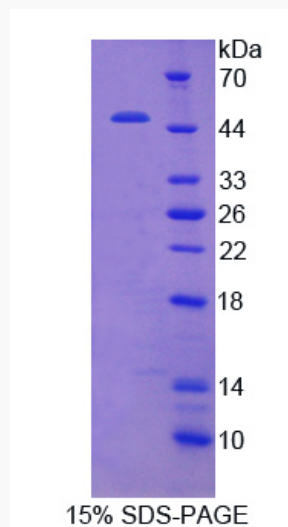
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mRNA Refseq [NM_001122752.1](#)

Protein Refseq [NP_001116224.1](#)

UniProt ID [Q99574](#)

SDS-PAGE



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