

Active Recombinant Human SERPINI1 Protein, GST-tagged

Cat. No. SERPINI1-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SERPINI1 (Thr17-Leu410) protein without tag was expressed in CHO.
Species	Human
Source	CHO
ProteinLength	17-410 a.a.
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.
Bio-activity	ED50 < 2.0 µg/mL, measured by the dose-dependent stimulation of the proliferation of rat C6 cells, corresponding to a specific activity of > 500.0 units/mg.
Molecular Mass	40~45 kDa, on SDS-PAGE under non-reducing conditions.
Endotoxin	< 0.2 EU/ µg of protein by gel clotting method

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Purity	> 95% as analyzed by SDS-PAGE > 95% as analyzed by HPLC
Storage	Upon receiving, this product remains stable for up to 6 months at lower than -70 centigrade. Upon reconstitution, the product should be stable for up to 1 week at 4 centigrade or up to 3 months at -20 centigrade. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O or PBS up to 100 µg/mL.

GENE INFORMATION

Gene Name	SERPINI1 serpin family I member 1 [Homo sapiens (human)]
Official Symbol	SERPINI1 serpin family I member 1 [Homo sapiens (human)]
Synonyms	SERPINI1; serpin family I member 1; PI12; HNS-S1; HNS-S2; neuroserpin; 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; truncated HNS-T
Gene ID	5274
mRNA Refseq	NM_005025
Protein Refseq	NP_005016

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MIM	602445
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UniProt ID	Q99574
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