

Recombinant Human Neuroserpin (rHuNeuroserpin)

PrimeGene Technical Data Sheet

Catalog Number:

402-02

Source:

Escherichia coli.

Molecular Weight:

Approximately 44.7 kDa, a single non-glycosylated polypeptide chain containing 394 amino acid

residues.

Quantity:

 $5\mu g/25\mu g/1000\mu g$

AA Sequence:

TGATFPEEAI ADLSVNMYNR LRATGEDENI LFSPLSIALA MGMMELGAQG STOKEIRHSM GYDSLKNGEE FSFLKEFSNM VTAKESOYVM KIANSLFVON GFHVNEEFLQ MMKKYFNAAV NHVDFSQNVA VANYINKWVE NNTNNLVKDL VSPRDFDAAT YLALINAVYF KGNWKSQFRP ENTRTFSFTK DDESEVQIPM MYQQGEFYYG EFSDGSNEAG GIYQVLEIPY EGDEISMMLV LSRQEVPLAT LEPLVKAQLV EEWANSVKKQ KVEVYLPRFT VEQEIDLKDV LKALGITEIF IKDANLTGLS DNKEIFLSKA IHKSFLEVNE EGSEAAAVSG MIAISRMAVL

YPQVIVDHPF FFLIRNRRTG TILFMGRVMH PETMNTSGHD FEEL

Purity:

> 95 % by SDS-PAGE and HPLC analyses.

Biological Activity:

Fully biologically active when compared to standard. The ED₅₀ as determined by a cell proliferation assay using rat C6 cells is less than $0.5 \mu g/ml$, corresponding to a specific activity of > 2000 IU/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation: **Endotoxin:**

Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4. Less than 1 EU/µg of rHuNeuroserpin as determined by LAL method.

Reconstitution:

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and

stored at \leq -20 °C. Further dilutions should be made in appropriate buffered solutions.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage:

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

12 months from date of receipt, -20 to -70 °C as supplied.

1 month, 2 to 8 °C under sterile conditions after reconstitution.

3 months, -20 to -70 °C under sterile conditions after reconstitution.

Usage:

This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further

evaluation purposes. NOT FOR HUMAN USE.

Human Neuroserpin

Neuroserpin encoded by the SERPINI1 gene in humans is a member of the serine proteinase inhibitor (serpin) family. It reacts preferentially with tissue-type plasminogen activator (tPA). Neuroserpin is expressed mainly in the central nervous system (CNS) in response to neuronal depolarization and plays an important role in the development of synaptic plasticity. Mutations in human neuroserpin result in a form of autosomal dominant inherited dementia which is characterized by the presence of intraneuronal inclusion bodies and is known as Familial Encephalopathy with Neuroserpin Inclusion Bodies.

Shanghai PrimeGene Bio-Tech Co., Ltd.

Website: www.primegene.com.cn

Website: www.primegene.com Tel: +86 21 52380373 Fax: +86 21 61077348

Rev. 08/20/2018 V.3

Email: info.pg@bio-techne.com