

# Recombinant Human Neurturin

**Cat. No.** NRTN-953H    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                  |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant human Neurturin produced in <i>E. Coli</i> is a homodimeric 23.6 kDa protein consisting of two identical subunits each containing 103 amino acid residues.                                                                                                                                           |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>         | Human Neurturin (NTN) and human GDNF comprise a family of TGF-beta related neurotrophic factor which have trophic influences on a variety of neuronal populations. Neurturin promotes the survivability of certain sympathetic and sensory neurons through interaction with distinct set of GDNF-like receptors. |
| <b>Purity</b>              | 98 % (SDS-PAGE, HPLC).                                                                                                                                                                                                                                                                                           |
| <b>Endotoxin Level</b>     | < 0.1 ng per ug of Neurturin.                                                                                                                                                                                                                                                                                    |
| <b>Stabilizer</b>          | None.                                                                                                                                                                                                                                                                                                            |
| <b>Formulation</b>         | Lyophilized.                                                                                                                                                                                                                                                                                                     |
| <b>Biological Activity</b> | Human Neurturin is fully biologically active when compared to standards. Human Neurturin at a concentration of 50-100 ng/ml will support the survival of 65% of newborn rat sympathetic neurons.                                                                                                                 |
| <b>Reconstitution</b>      | The lyophilized human Neurturin can be reconstituted in water to a concentration of 1                                                                                                                                                                                                                            |

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mg/ml. This solution can be diluted into other buffered solutions or stored at -20°C for future use. For most in vitro applications, Neurturin exerts its biological activity in the concentration of 0.1 to 10 ng/ml.

**Stability**

The lyophilized protein, though stable at room temperature, is best stored desiccated below 0°C. Reconstituted Neurturin should be stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.

**Pathways**

Axon guidance

## GENE INFORMATION

**Gene Name**

[NRTN neurturin \[ Homo sapiens \]](#)

**Synonyms**

neurturin; NTN; NRTN

**Gene ID**

[4902](#)

**mRNA Refseq**

[NM\\_004558](#)

**Protein Refseq**

[NP\\_004549](#)

**MIM**

[602018](#)

**UniProt ID**

[Q99748](#)

**Chromosome  
Location**

19p13.3

**Function**

growth factor activity

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