

**Recombinant Human Neurturin**  
**Catalog # PBG10332****Specification**

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**Recombinant Human Neurturin - Product Information****Recombinant Human Neurturin - Additional Information****Description**

Neurturin is a disulfide-linked homodimer neurotrophic factor structurally related to GDNF, Artemin, and Persephin. These proteins belong to the cysteine-knot family of growth factors that assume stable dimeric structures. Neurturin signals through a multicomponent receptor system, composed of RET and one of four GFR  $\alpha$  ( $\alpha 1$ - $\alpha 4$ ) receptors. Neurturin promotes the development and survival of sympathetic and sensory neurons by signaling through a receptor system composed of RET and GFR $\alpha 2$ . The functional form of human Neurturin is a disulfide-linked homodimer, of two 11.8 kDa polypeptide monomers (204 total amino acid residues). Each monomer contains seven conserved cysteine residues, one of which (Cys 69) is used for inter-chain disulfide bridging and the others are involved in intramolecular ring formation known as the cysteine knot configuration.

**Biological Activity**

Human Neurturin at a concentration of 100 ng/ml will support the survival of 65% of newborn rat sympathetic neurons.

**Authenticity**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**Endotoxin**

Endotoxin level is <0.1 ng/  $\mu$ g of protein (<1EU/  $\mu$ g).

**Protein Content**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

**Storage**

-20°C

**Precautions**

Recombinant Human Neurturin is for research use only and not for use in diagnostic or therapeutic procedures.

**Recombinant Human Neurturin - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **Recombinant Human Neurturin - Images**