cellsciences.com

NRTN
Recombinant Human Neurturin

Catalog No.	CRN100A	**Quantity:**	20 µg

Alternate Names: NTN

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 α (α1-α4) receptors. Neurturin promotes the development and survival of sympathetic and sensory neurons by signaling through a receptor system composed of RET and GFRα2. 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.

UniProt ID: Q99748

Gene ID: 4902

Source: *E. coli*

Molecular Weight: 11.8 kDa (204 aa) monomer

Formulation: Lyophilized from PBS

Purity: > 98% by SDS-PAGE and HPLC analyses.

Endotoxin Level: < 1 EU/ug

Biological Activity: Human Neurturin at a concentration of 50-100 ng/ml will support the survival of 65% of newborn rat sympathetic neurons.

Amino Acid Sequence: ARLGARPCGL RELEVRVSEL GLGYASDETV LFRYCAGACE AAARVYDLGL RRLRQRRRLR RERVRAQPCC RPTAYEDEVS FLDAHSRYHT VHELSARECA CV

Reconstitution: **Centrifuge vial prior to opening**. Add PBS or medium to the vial to fully solubilize the protein to a concentration ≥ 100 µg/ml. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein such as 0.1% BSA and store in working aliquots at -20°C to -80°C.

Storage & Stability: Lyophilized protein is stable for 1 year at -20°C to -80°C. Store reconstituted protein in working aliquots at -20°C to -80°C. **Avoid repeated freeze-thaw cycles**.

Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com