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## **Neurturin Recombinant Protein**

CATALOG NUMBER: 40-500

Specifications	
SPECIES:	Human
SOURCE SPECIES:	E. coli
SEQUENCE:	MARLGARPCG LRELEVRVSE LGLGYASDET VLFRYCAGAC EAAARVYDLG LRRLRQRRRL RRERVRAQPC CRPTAYEDEV SFLDAHSRYH TVHELSAREC ACV
TESTED APPLICATIONS:	
BIOLOGICAL ACTIVITY:	Human Neurturin at a concentration of 100 ng/mL will support the survival of 65% of newborn rat sympathetic neurons.
Properties	
PURITY:	Greater than 98% by SDS-PAGE gel and HPLC analyses.
	Endotoxin level is less than 0.1 ng per ug (1EU/ug).
PHYSICAL STATE:	Lyophilized
STORAGE CONDITIONS:	The lyophilized Neurturin recombinant protein is stable for at least 2 years from date of receipt at -20°C. Reconstituted Neurturin is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. As with any protein, exposing Neurturin recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.
Additional Info	
ALTERNATE NAMES:	NTN, Neurturin
ACCESSION NO.:	NP 004549.1
PROTEIN GI NO.:	4758826

## **Background**

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 (alpha1-alpha4) receptors. Neurturin promotes the development and survival of sympathetic and sensory neurons by signaling through a receptor system composed of RET and GFRalpha2. The functional form of human Neurturin is a disulfide-linked homodimer, of two 11.8 kDa polypeptide monomers (206 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.

## FOR RESEARCH USE ONLY