



## CNTF Recombinant Protein

CATALOG NUMBER: 40-510

### Specifications

<b>SPECIES:</b>	Rat
<b>SOURCE SPECIES:</b>	E. coli
<b>SEQUENCE:</b>	AFAEQTPLTL HRRDLCRSRSL WLARKIRSDL TALMESYVKH QGLNKNINLD SVDGVPVAST DRWSEMTEAE RLQENLQAYR TFQGMLTKLL EDQRVHFTPT EGDHFQAIHT LMLQVSAFAY QLEELMVLE QKIPENEADG MPATVGDGGL FEKKLWGLKV LQELSQWTVR SIHDLRVISS HQMGISALES HYGAKDKQM
<b>TESTED APPLICATIONS:</b>	
<b>BIOLOGICAL ACTIVITY:</b>	Biological activity was determined by its ability to stimulate proliferation of human TF - 1 cells using a concentration range of 25.0 - 35.0 ng/mL.

### Properties

<b>PURITY:</b>	Greater than 98% by SDS-PAGE gel and HPLC analyses.  Endotoxin level is less than 0.1 ng per ug (1EU/ug).
<b>PHYSICAL STATE:</b>	Lyophilized
<b>STORAGE CONDITIONS:</b>	The lyophilized CNTF recombinant protein is stable for at least 2 years from date of receipt at -20°C. Reconstituted CNTF is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. As with any protein, exposing CNTF 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

<b>ALTERNATE NAMES:</b>	Ciliary neurotrophic factor, CNTF
<b>ACCESSION NO.:</b>	NP_037298.1
<b>PROTEIN GI NO.:</b>	6978675

### Background

CNTF is a potent neural factor that was originally characterized as a vital factor for the survival of chick ciliary neurons in vitro. CNTF is also important for the survival of other neural cell types including primary sensory neurons, motor neurons, basal forebrain neurons and type 2 astrocytes. CNTF is highly conserved across species and exhibits cross-species bioactivity. Recombinant rat CNTF is synthesized as a 199 amino acid polypeptide (22.7 kDa) lacking a hydrophobic N-terminal signal for secretion.

**FOR RESEARCH USE ONLY**