

**BACKGROUND:**

Ciliary Neurotrophic Factor, or CNTF, is a neurotrophic factor that promotes the survival of various neuronal cell types and may play an important role in the injury response in the nervous system. CNTF, like FGF acidic, FGF basic, and PD-ECGF (platelet-derived endothelial cell growth factor), does not possess a signal sequence that would allow secretion of the factor by classical secretion pathways (endoplasmic reticulum/Golgi system), but the mechanism underlying the release of CNTF is unknown.

Recombinant human CNTF is a non-glycosylated protein, contains 199 amino acids, with a molecular mass of 22.7 kDa.

**Cat. No.:**  
RP1059AF

**AA Sequence:**

MAFTEHSPLT	PHRRDLCSRS	IWLARKIRSD
LTALTESYVK	HQGLNKNINL	DSADGMPVAS
TDQWSELTEA	ERLQENLQAY	RTFHVLLARL
LEDQQVHFTP	TEGDFHQAIH	TLLLQVAafa
YQIEELMILL	EYKIPRNEAD	GMPINVDGDD
LFEKKLWGLK	VLQELSQWTV	RSIHDLRFIS
SHQTGIPARG	SHYIANNKMM	

**TECHNICAL INFO**

**Source:**  
*E. coli*

**Physical Appearance:**  
Sterile Filtered white lyophilized (freeze-dried) powder.

**Formulation:**  
10 mM sodium phosphate, pH 7.5

**Stability:**  
Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

**Reconstitution:**

**Protein Content and Purity determined by:**

- UV spectroscopy at 280 nm.
- RP-HPLC calibrated against a known standard.
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

**Endotoxin Level:**  
Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

**Biological Activity:**  
Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/mL, which can be further diluted into other aqueous solutions.

**Animal Component-Free**  
This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

