

## Recombinant Human CNTF

Catalog No: C098

<b>Description</b>	Recombinant Human Ciliary Neurotrophic Factor is produced by our E.coli expression system and the target gene encoding Ala2-Met200 is expressed.	
<b>Source</b>	E.coli	
<b>Alternative name</b>	Ciliary Neurotrophic Factor; CNTF	
<b>Accession No.</b>	P26441	
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20mM Tris-HCl, 100mM NaCl, pH 8.0.	
<b>Quality Control</b>	Purity	Greater than 95% as determined by reducing SDS-PAGE.
	Endotoxin	Less than 0.1 ng/µg (1 EU/µg).
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.	
<b>Storage</b>	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.	
<b>Amino Acid Sequence</b>	AFTEHSPLTPHRRDLCSRSIWLARKIRSDLTALTESYVKHQGLNKNINLDSADGMPVASTDQWSELT EAERLQENLQAYRTFHV LLARLLEDQQVHFTPTGDFHQAIHTLLLQVAAFAYQIEELMILLEYKIPRNEADGMPINVG DGG LFEK KLWGLKVLQELSQWT VRSIHDLRFISSHTGIPARGSHYIANNKKM	
<b>Background</b>	Ciliary Neurotrophic Factor (CNTF) is a potent survival factor for neurons and oligodendrocytes. CNTF has also been shown to prevent the degeneration of motor axons after axotomy. CNTF is highly conserved across species and exhibits cross-species activities. Human and rat CNTF share approximately 83% homology in their protein sequence. CNTF is structurally related to IL6, IL11, LIF and OSM. All of these four helix bundle cytokines share gp130 as a signal transducing subunit in their receptor complexes. 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. The mechanism underlying the release of CNTF is unknown.	

### SDS-PAGE

