

## Active Recombinant Human CNTF Protein

Cat. No. CNTF-192C    Lot. No. (See product label)

### SPECIFICATION

**Product Overview**      Recombinant Human CNTF Protein without tag was expressed in HEK 293.

**Species**                      Human

**Source**                        HEK293

**Description**

Ciliary neurotrophic factor (CNTF) is a polypeptide initially purified from chick embryo ocular tissue and identified as a trophic factor for embryonic chick ciliary parasympathetic neurons in culture. Subsequent studies have demonstrated that CNTF is a survival factor for additional neuronal cell types including: dorsal root ganglion sensory neurons, sympathetic ganglion neurons, embryonic motor neurons, major pelvic ganglion neurons and hippocampal neurons. CNTF has also been shown to prevent the degeneration of motor axons after axotomy. The gene for human CNTF has been localized to the proximal region of the long arm of chromosome 11. 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 IL-6, IL-11, LIF and OSM. All of these four helix bundle cytokines share gp130 as a signal-transducing subunit in their receptor complexes.

**Form**                              Sterile Filtered White lyophilized (freeze-dried) powder.

**Bio-activity**                      ED50 < 0.20 µg/mL, measured in a cell proliferation assay using TF-1 cells.

**Molecular Mass**                22~28 kDa, observed by reducing SDS-PAGE.

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<b>AA Sequence</b>	MAFTEHSPLTPHRRDLCSRSIWLARKIRSDLTALTESYVKHQGLNKNINLDSADGMP VASTDQWSELTEAERLQENLQAYRTFHVLLARLLEDQQVHFTPTEGDFHQAIHTLLL QVAAFAYQIEELMILLEYKIPRNEADGMPINVDGGGLFEKKLWGLKVLQELSQWTVR SIHDLRFISSHQTGIPARGSHYIANNKMM
<b>Endotoxin</b>	< 0.2 EU/μg, determined by LAL method.
<b>Purity</b>	> 95% as analyzed by SDS-PAGE.
<b>Storage</b>	Lyophilized recombinant Human Ciliary Neurotrophic Factor (CNTF) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Human Ciliary Neurotrophic Factor (CNTF) should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
<b>Storage Buffer</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 μg/mL.

## GENE INFORMATION

<b>Gene Name</b>	CNTF ciliary neurotrophic factor [ Homo sapiens ]
<b>Official Symbol</b>	CNTF
<b>Synonyms</b>	CNTF; ciliary neurotrophic factor; HCNTF;
<b>Gene ID</b>	1270
<b>mRNA Refseq</b>	NM_000614
<b>Protein Refseq</b>	NP_000605

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<b>MIM</b>	118945
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<b>UniProt ID</b>	P26441
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