

**CNTF**  
**Catalog # PVGS1667****Specification**

---

**CNTF - Product Information**

Primary Accession [P51642](#)  
**Species**  
Mouse

**Sequence**  
Ala2-Met198

**Purity**  
> 95% as analyzed by SDS-PAGE<br>> 95% as analyzed by HPLC

**Endotoxin Level**  
< 1 EU/ µg of protein by LAL method

**Expression System**  
E. coli

**Theoretical Molecular Weight**  
22.5 kDa

Formulation **Lyophilized from a 0.2 µm filtered solution  
in 2 × PBS, pH 7.4, 2 % trehalose.**

**Reconstitution**  
It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1 mg/ml.

**Storage & Stability**  
Upon receiving, this product remains stable for up to 6 months at -20°C or -70°C. Upon reconstitution, the product should be stable for up to 1 week at 2-8°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

**CNTF - Additional Information**

**Gene ID** 12803

**Other Names**  
Ciliary neurotrophic factor, CNTF, Cntf

**Target Background**  
Ciliary neurotrophic factor (CNTF) is a polypeptide hormone whose actions appear to be restricted to the nervous system where it promotes neurotransmitter synthesis and neurite outgrowth in certain neuronal populations. CNTF was initially identified as a trophic factor for embryonic chick ciliary parasympathetic neurons in culture. Furthermore, the protein is also a potent survival factor for neurons and oligodendrocytes and may be relevant in reducing tissue destruction during

inflammatory attacks. In addition, CNTF is useful for treatment of motor neuron disease and it could reduce food intake without causing hunger or stress. Recombinant murine CNTF containing 198 amino acids and it shares 82 % and 95 % a.a. sequence identity with human and rat CNTF.

## **CNTF - Protein Information**

**Name** Cntf

### **Function**

CNTF is a survival factor for various neuronal cell types. Seems to prevent the degeneration of motor axons after axotomy.

### **Cellular Location**

Cytoplasm.

### **Tissue Location**

Nervous system.

## **CNTF - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **CNTF - Images**