

CNTF
Catalog # PVGS1490**Specification**

CNTF - Product Information

Primary Accession [P51642](#)
Species
Mouse

Sequence
Ala2-Met198

Purity
> 95% as analyzed by SDS-PAGE

Endotoxin Level
< 0.2 EU/ µg of protein by gel clotting method

Biological Activity
ED₅₀ < 30.0 ng/ml, measured by its ability to induce alkaline phosphatase production by TF-1 Cells.

Expression System
E. coli

Formulation **Lyophilized after extensive dialysis against PBS**

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 ddH₂O or PBS up to 100 µg/ml.

Storage & Stability
Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. 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 which acts within the nervous system where it promotes neurotransmitter synthesis and neurite outgrowth in certain neuronal populations. CNTF is a potent survival factor for neurons and oligodendrocytes and may play a role in reducing tissue damage during increased inflammation. A mutation in this gene, which results in

aberrant splicing, leads to ciliary neurotrophic factor deficiency, however this phenotype is not causally related to neurologic disease.

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