

Rev05  
Update: Aug,11,2025**DATASHEET**

# CNTF, Rat

Cat. No.: Z03313

## Product Introduction

<b>Species</b>	Rat
<b>Protein Construction</b>	<b>CNTF (Ala2-Met200) Accession # P20294-1</b>
<b>Purity</b>	> 95% as analyzed by SDS-PAGE
<b>Endotoxin Level</b>	< 0.2 EU/μg of protein by gel clotting method
<b>Biological Activity</b>	ED <sub>50</sub> < 30.0 ng/ml, measured by its ability to induce alkaline phosphatase production by TF-1 Cells.
<b>Expression System</b>	E. coli
<b>Apparent Molecular Weight</b>	~22.9 kDa, on SDS-PAGE under reducing conditions.
<b>Formulation</b>	Lyophilized after extensive dialysis against 50 mM Tris, pH 8.0.
<b>Reconstitution</b>	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH <sub>2</sub> O or PBS up to 100 μg/ml.
<b>Storage &amp; Stability</b>	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.

## Background

**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.

**Synonyms :** Ciliary Neurotrophic Factor

**For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.**

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