


## Rat-CNTF protein

Cat #: PRP1222

Size: 5 µg/20 µg/100 µg/1 mg

### Product Information

|   |   |            |   |
|---|---|------------|---|
|   | <b>Product Name:</b> Rat-CNTF protein                           |            |   |
| <b>REF</b>  | <b>Catalog Number:</b> PRP1222                                  | <b>LOT</b> | <b>Lot Number:</b> Refer to product label |
|   | <b>Purity:</b> > 97 % as determined by SDS-PAGE                 |            |   |
|  | <b>Storage:</b> Store at -20°C                                  |            | <b>Preparation method:</b> <i>E. coli</i> |
|   | <b>Shipping:</b> The product is shipped at ambient temperature. |            |   |

**Background:** Ciliary neurotrophic factor (CNTF) is a member of the cytokine family. It is a polypeptide hormone that has the function of promoting the synthesis of neurotransmitters and the growth of neurites in a specific neuronal population. Its action seems to be limited to the nervous system. Ciliary neurotrophic factor (CNTF) exerts its biological effects by activating a multi-subunit receptor complex consisting of an extracellular CNTF-binding subunit (CNTF $\alpha$ ) and two transmembrane signaling proteins (glycoprotein gp130 and LIF receptor). CNTF is thought to be a potent survival factor in neurons and oligodendrocytes and may be associated with reduced tissue destruction during inflammatory episodes. CNTF is also a survival factor for peripheral sensory sympathetic ganglions and ciliary ganglia neurons. CNTF has been reported to have therapeutic potential and to greatly differentiate.

**Sequence :** Amino acid sequence derived from the processed form of Rat-CNTF (P20294) (Met 1-Met 200) was expressed.

**Protein length:** The recombinant Rat CNTF consisting of 200 amino acids and has a calculated molecular mass of 22.9 kDa. It migrates as an approximately 24 kDa band in SDS-PAGE under reducing conditions.

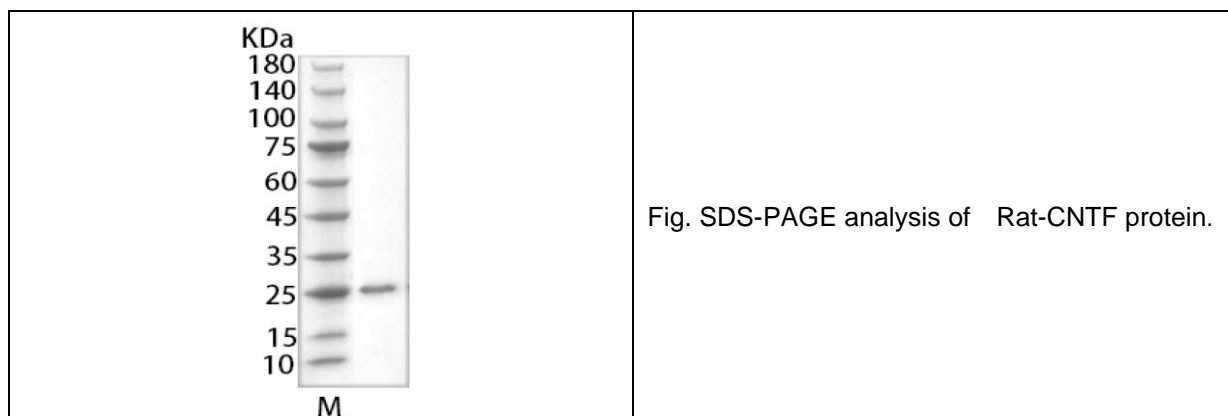
**Biological Activity:** Measured by its ability to induce proliferation in TF-1 cells. The ED<sub>50</sub> for this effect is 0.02748 ng/mL.

**Endotoxin:** <1 EU per µg of the protein as determined by the LAL method.

**Formulation:** Liquid in from sterile 20 mM Tris 50mM NaCl ,pH 8.0.

**Storage Instructions:** The Rat-CNTF protein product should be stored desiccated below -20°C. The protein should be stored at 4°C between 2-7 days and for future use below -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Usage notes:** Always centrifuge tubes before opening. It is recommended to dilute the protein using the PBS buffer or Protein storage solution to working concentration.



**Note:** The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.