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# **Recombinant human CNTF protein**

Catalog Number: ATGP3455

### **PRODUCT INFORMATION**

### **Expression system**

E.coli

#### **Domain**

1-200aa

#### UniProt No.

P26441

#### **NCBI Accession No.**

NP 000605

#### **Alternative Names**

Ciliary neurotrophic factor

# **PRODUCT SPECIFICATION**

# **Molecular Weight**

25 kDa (220aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.5) containing 1mM DTT, 30% glycerol, 0.2M NaCl

#### **Purity**

> 95% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

### **Biological Activity**

Measured in a cell proliferation assay using TF-1 human erythroleukemic cell. The ED50 range  $\leq 1 \text{ug/ml}$ .

#### Tag

His-Tag

## **Application**

SDS-PAGE, Bioactivity

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

# **BACKGROUND**

# **Description**

CNTF (Ciliary neurotrophic factor) is a polypeptide hormone whose actions appear to be restricted to the nervous



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system where it promotes neurotransmitter synthesis and neurite outgrowth in certain neuronal populations. This protein is a potent survival factor for neurons and oligodendrocytes and may be relevant in reducing tissue destruction during inflammatory attacks. CNTF protein is structurally related to leukemia inhibitory factor (LIF), interleukin-6 (IL-6), interleukin-11 (IL-11) and oncostatin M (OSM). It is localized in the cell nucleus subsequent to receptor binding. Recombinant human CNTF, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

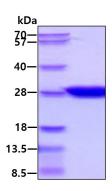
<MGSSHHHHHH SSGLVPRGSH> MAFTEHSPLT PHRRDLCSRS IWLARKIRSD LTALTESYVK HQGLNKNINL DSADGMPVAS TDQWSELTEA ERLQENLQAY RTFHVLLARL LEDQQVHFTP TEGDFHQAIH TLLLQVAAFA YQIEELMILL EYKIPRNEAD GMPINVGDGG LFEKKLWGLK VLQELSQWTV RSIHDLRFIS SHQTGIPARG SHYIANNKKM

#### **General References**

Sendther M., et al. (1994), J Neurobiol. 25(11):1436-53. Robert F., et al. (2007), J. Biol. Chem. 282(46): 33421-33434

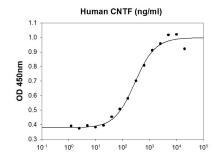
#### **DATA**

### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

# **Biological Activity**



Human CNTF in a cell proliferation assay using TF-1 human erythroleukemic cell. The ED50 range  $\leq 1 \text{ug/ml}$ .

