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# **Recombinant human CNTF protein**

Catalog Number: ATGP1156

### 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**

22.9 kDa (200aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### Tag

Non-Tagged

# **Application**

SDS-PAGE

# **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 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 protein was expressed in E. coli and purified by using conventional



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chromatography techniques.

# **Amino acid Sequence**

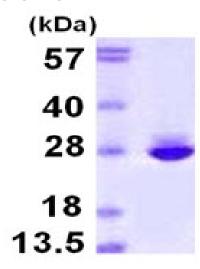
MAFTEHSPLT PHRRDLCSRS IWLARKIRSD LTALTESYVK HQGLNKNINL DSADGMPVAS TDQWSELTEA ERLQENLQAY RTFHVLLARL LEDQQVHFTP TEGDFHQAIH TLLLQVAAFA YQIEELMILL EYKIPRNEAD GMPINVGDGG LFEKKLWGLK VLQELSQWTV RSIHDLRFIS SHQTGIPARG SHYIANNKKM

#### **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**



15% SDS-PAGE (3ug)

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

