

Recombinant human CNTF protein

Catalog Number: ATGP3316

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

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 cells. The ED50 range ≤ 500 ng/ml.

Tag

Non-Tagged

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

Amino acid Sequence

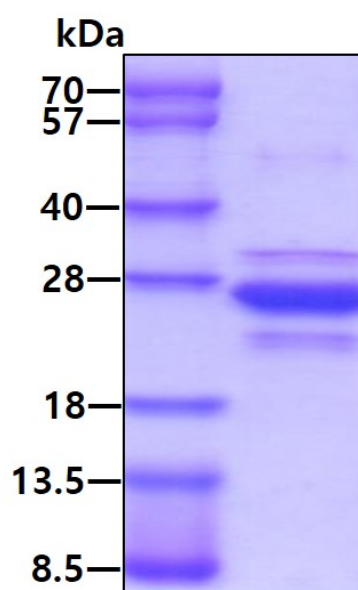
MAFTEHSPLT PHRRDLCSRS IWLARKIRSD LTALTESYVK HQGLNKNINL DSADGMPVAS TDQWSELTEA ERLQENLQAY
RTFHVLLARL LEDQQVHFTP TEGDFHQAIH TLLQVAAFA YQIEELMILL EYKIPRNEAD GMPINVGDGG LFEKKLWGLK
VLQELSQWTV RSIHDLRFIS SHQTGIPARG SHYIANNKKM

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.

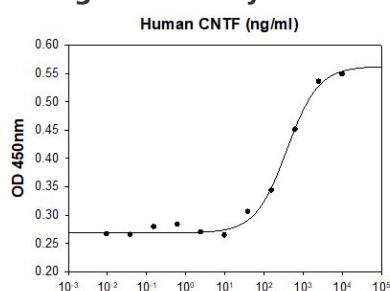
DATA

SDS-PAGE



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

Biological Activity



Human CNTF stimulates cell proliferation of the TF-1 human erythroleukemic cells. The ED50 range ≤ 500 ng/ml.