

CNTF Human, His

Ciliary Neurotrophic Factor Human Recombinant, His Tag
NTR0014

Product Overview

Name CNTF Human, His

Description

Ciliary Neurotrophic Factor Human Recombinant, His Tag

Accession (Primary) [P26441](#)

Synonyms

Ciliary neurotrophic factor, CNTF, HCNTF.

Introduction

CNTF 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. The protein is a potent survival factor for neurons and oligodendrocytes and may be relevant in reducing tissue destruction during inflammatory attacks. A mutation in this gene, which results in aberrant splicing, leads to ciliary neurotrophic factor deficiency, but this phenotype is not causally related to neurologic disease. In addition to the predominant monocistronic transcript originating from this locus, the gene is also co-transcribed with the upstream ZFP91 gene. Co-transcription from the two loci results in a transcript that contains a complete coding region for the zinc finger protein but lacks a complete coding region for ciliary neurotrophic factor. CNTF is a survival factor for various neuronal cell types. Seems to prevent the degeneration of motor axons after axotomy.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered clear solution.

Formulation

CNTF protein solution (1mg/ml) containing 20 mM Tris-HCl buffer (pH 8.5), 1 mM DTT, 30% Glycerol and 0.2M NaCl.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 95.0% as determined by SDS-PAGE.

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.

Biological Activity

Measured in a cell proliferation assay using TF-1 human erythroleukemic cell. The ED50 for this effects is less or equal to 1 ug/ml.

Precautions

CNTF Human, His is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: ([P26441](#))