
Product Data Sheet

Product Name: CNTF Mouse
 Cat. No.: GP20137
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	HCNTF; CNTF; Ciliary Neurotrophic Factor.		
Amino Acid Sequence	MAFAEQSPLT LHRRLCSRS IWLARKIRSD LTALMESYVK HQGLNKNISL DSVDGVPVAS TDRWSEMTEA ERLQENLQAY RTFQGMLTKL LEDQRVHFTP TEGDFHQAIH TLTLQVSAFA YQLEELMALL EQKVPEKEAD GMPVTIGDGG LFEKKLWGLK VLQELSQWTV RSIHDLRVIS SHHMGISAHE SHYGAKQM		
Solubility	It is recommended to reconstitute the lyophilized CNTF in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.		

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.

Biological Activity

Caution: Product has not been fully validated for medical applications. For research use only.

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Fully biologically active when compared to standard. The ED50 as determined by the dose-dependant stimulation of TF-1 cells is less than 35ng/ml, corresponding to a Specific Activity of 3.06×10^4 IU/mg.

Stability

Lyophilized Ciliary Neurotrophic Factor although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution CNTF should be stored at 4°C between 2-7 days and for future use below -18°C . Please prevent freeze-thaw cycles.

Background

Ciliary Neurotrophic Factor Recombinant Mouse produced in E.Coli is a single, non-glycosylated polypeptide chain containing 198 amino acids and having a molecular mass of 22.6kDa. The CNTF is purified by proprietary chromatographic techniques.

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