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## Product Data Sheet

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Product Name: CNTF Human, His  
 Cat. No.: GP20135  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	HCNTF; CNTF; Ciliary Neurotrophic Factor.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAFTEHSPLT PHRRDLCSRS IWLARKIRSDLTALTESYVK HQGLNKNINL DSADGMPVAS TDQWSELTEA ERLQENLQAY RTFHVLLARL LEDQQVHFTP TEGDFHQAIH TLLLQVAAFA YQIEELMILL EYKIPRNEAD GMPINVGDDG LFEKKLWGLK VLQELSQWTV RSIHDLRFIS SHQTGIPARG SHYIANNKMM.		
Formulation	CNTF protein solution (1mg/ml) contains 20mM Tris-HCl buffer pH-8 and 1mM DTT.		

### 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.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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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.

### Background

Ciliary Neurotrophic Factor Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain (aa 1-200) containing a total of 220 amino acids and having a molecular mass of 25kDa. The CNTF protein is fused to a 20 aa His Tag at N-terminus and purified by proprietary chromatographic techniques.

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