

## CNTF Human, His

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

**Catalog #:** CYP5-580

For research use only.

**Synonyms:** HCNTF, CNTF, Ciliary Neurotrophic Factor.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless clear solution at a concentration of 1mg/ml.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MAFTEHSPLT PHRRDLCSRS  
IWLARKIRSDLTALTESYVK HQGLNKNINL DSADGMPVAS TDQWSELTEA ERLQENLQAY  
RTFHVLLARL LEDQQVHFTP TEGDFHQAIH TLLLQVAFA YQIEELMILL EYKIPRNEAD  
GMPINVDGG LFEKKLWGLK VLQELSQWTV RSIHDLRFIS SHQTGIPARG SHYIANNKMM.

**Purity:** Greater than 95.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

**Formulation:**

CNTF His tag protein solution contains 20mM Tris buffer pH-8 and 1mM DTT.

**Stability:**

CNTF his tag fusion protein although stable 4°C for 1 week, should be stored desiccated below -18°C. Please prevent freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**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.

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