

Recombinant Human Ciliary Neurotrophic Factor, His-tagged

Cat. No. CNTF-08H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CNTF, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques (220 aa, 25 kDa).
Species	Human
Source	E.coli
Description	CNTF (Ciliary neurotrophic factor) 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. 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.
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT.
Molecular Weight	25 kDa (220 aa).
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Amino acid	MGSSHHHHHH SSGLVPRGSH MAFTEHSPLT PHRRDLCSRS IWLARKIRSD

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sequence LTALTESYVK HQGLNKNINL DSADGMPVAS TDQWSELTEA ERLQENLQAY
RTFHVLLARL LEDQQVHFTP TEGDFHQAIH TLLLQVAafa YQIEELMILL
EYKIPRNEAD GMPINVDGG LFEKKLWGLK VLQELSQWTV RSIHDLRFIS
SHQTGIPARG SHYIANNKKM

Storage Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name [CNTF ciliary neurotrophic factor \[Homo sapiens \]](#)

Synonyms HCNTF; CNTF; Ciliary Neurotrophic Factor; OTTHUMP00000174731; ciliary neurotrophic factor.

Gene ID [1270](#)

mRNA Refseq [NM_000614](#)

Protein Refseq [NP_000605](#)

MIM [118945](#)

UniProt ID [P26441](#)

Chromosome Location 11q12.2

Pathway Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway.

Function ciliary neurotrophic factor receptor binding; interleukin-6 receptor binding; protein

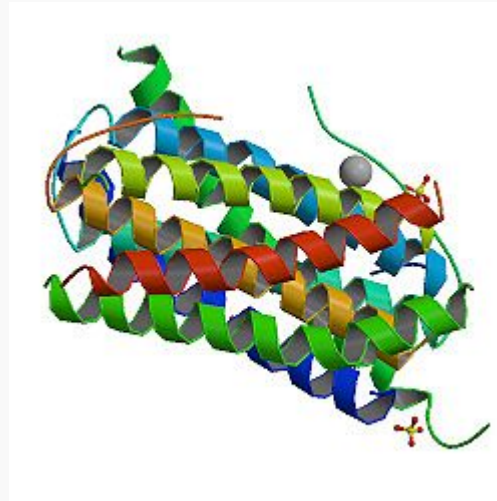
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binding.

PDBrendering based
on 1cnt. Available
structures: 1cnt.



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