

Recombinant Active Human CNTF Protein, His-tagged(C-ter)

Cat. No. CNTF-43H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Active Human CNTF Protein with His tag (C-ter) was expressed in E. coli.
Species	Human
Source	E.coli
Description	The protein encoded by this gene 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. A read-through transcript variant composed of the upstream ZFP91 gene and CNTF sequence has been identified, but it is thought to be non-coding. Read-through transcription of ZFP91 and CNTF has also been observed in mouse. [provided by RefSeq, Oct 2010]
Form	Powder
Bio-activity	Determined by its ability to induce proliferation in TF-1 cells. The ED50 for this effect is < 0.15 µg/mL.
AA Sequence	MAFTEHSPLTPHRRDLCSRSIWLARKIRSDLTALTQSYVKHQGLNKNINLDSADGMP VASTDQWSQLTQAQRLQQNLQAYRTFHVLLARLLQDQQVHFTPTQGDFHQAIHTLL

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	LQVAAFAYQIQQLMILLQYKIPRNQADGMPINVG DGG LFQKKLWGLKVLQQLSQWT VRSIHDLRFISSHQTGIPARGSHYIANNKKM
Endotoxin	Endotoxin level is less than 0.01 EU/μg of the protein, as determined by the LAL test.
Purity	> 98% (by SDS-PAGE)
Applications	SDS-PAGE
Notes	For laboratory research only, not for drug, diagnostic or other use.
Storage	Lyophilized protein should be stored at -20°C. After reconstitution, aliquot and store at -20°C or -80°C for up to one month. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.
Storage Buffer	PBS (pH 7.4)
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL and incubate the stock solution for at least 20 min at room temperature to make sure the protein is dissolved completely.

GENE INFORMATION

Gene Name	CNTF ciliary neurotrophic factor [Homo sapiens]
Official Symbol	CNTF
Synonyms	CNTF; ciliary neurotrophic factor; HCNTF;
Gene ID	1270

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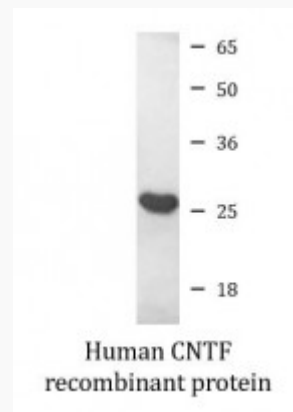
mRNA Refseq [NM_000614](#)

Protein Refseq [NP_000605](#)

MIM [118945](#)

UniProt ID [P26441](#)

SDS-PAGE



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