Native Human CNTF

Cat. No. CNTF-26839TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human CNTF; 199 amino acids, 22706 Daltons.
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.
Tissue specificity	Nervous system.
Form	Lyophilised:Reconstitute in sterile 18MO-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions..
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: ddH20, 5mM Sodium chloride, 5mM Sodium

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	phosphate buffer, pH 7.5
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ala-Phe-Thr-Glu.
Sequence Similarities	Belongs to the CNTF family.
Full Length	Full L.

GENE INFORMATION

Gene Name	CNTF ciliary neurotrophic factor [Homo sapiens]
Official Symbol	CNTF
Synonyms	CNTF; ciliary neurotrophic factor; HCNTF;
Gene ID	1270
mRNA Refseq	NM_000614
Protein Refseq	NP_000605
MIM	118945
Uniprot ID	P26441
Chromosome Location	11q12

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Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Delta-Notch Signaling Pathway, organism-specific biosystem; Jak-STAT signaling pathway, organism-specific biosystem; Jak-STAT signaling pathway, conserved biosystem;
Function	ciliary neurotrophic factor receptor binding; cytokine activity; growth factor activity; interleukin-6 receptor binding;

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