

Active Recombinant Human CNTF Protein

Cat. No. CNTF-020H **Lot. No.** (See product label)

SPECIFICATION

Product Overview The mature recombinant human CNTF protein consists of 199 amino acids (2-200) without tag was expressed in E. coli.

Species Human

Source E.coli

ProteinLength 2-200 a.a.

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.

Bio-activity Fully biologically active when compared to standard. The ED50 as determined by the dose-dependant stimulation of TF-1 cells is less than 3.0 ng/mL.

Molecular Mass 22.8 kDa

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Product-Related Proteins	2-200
Endotoxin	< 0.1 EU/μg of the protein as determined by the LAL method
Purity	> 95 % as determined by SDS-PAGE
Storage	At -80 centigrade. Avoid repeated freeze-thaw cycles.
Storage Buffer	PBS

GENE INFORMATION

Gene Name	CNTF ciliary neurotrophic factor [Homo sapiens (human)]
Official Symbol	CNTF
Synonyms	CNTF; ciliary neurotrophic factor; HCNTF; ciliary neurotrophic factor; Ciliary Neuronotrophic Factor
Gene ID	1270
mRNA Refseq	NM_000614
Protein Refseq	NP_000605
MIM	118945
UniProt ID	P26441

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