

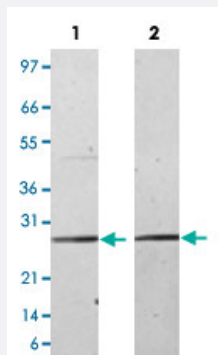
Bioactive

CNTF (Human) Recombinant Protein

Catalog # P4379

Size 20 ug

Applications



Lane 1: non-reducing conditions

Lane 2: reducing conditions

Specification

Product Description

Human CNTF (P26441) recombinant protein expressed in *Escherichia coli*.

Sequence

MAFTEHSPLTPHRRDLCSRSIWLARKIRSDLTALTESYVKHQGLNKNINLDSADGMPVASTDQWS
ELTEAERLQENLQAYRTFHVLLARLLEDQQVHFTPTTEGDFHQAIHTLLLQVAAYQIEELMILLEYK
IPRNEADGMPINVGDGGLFEKKLWGLKVLQELSQWTVRSIHDLRFISSHQTGIPARGSHYANNKK
M

Host

Escherichia coli

Theoretical MW (kDa)

22.7

Form

Lyophilized

Preparation Method

Escherichia coli expression system

Endotoxin Level

< 0.1 EU/ug

Activity

The activity is determined by the dose-dependent stimulation of TF-1 cells and is typically 0.1-0.6 ng/mL.

Quality Control Testing

1 ug/lane in 4-20% Tris-Glycine gel Stained with Coomassie Blue
Lane 1: non-reducing conditions
Lane 2: reducing conditions

Storage BufferLyophilized from 10 mM Na₂PO₄, pH 7.5**Storage Instruction**

Store at -20°C on dry atmosphere.
After reconstitution with sterilized water, store at -20°C or lower.
Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — CNTF

Entrez GeneID[1270](#)**Protein Accession#**[P26441](#)**Gene Name**

CNTF

Gene Alias

HCNTF

Gene Description

ciliary neurotrophic factor

Omim ID[118945](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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 ZFP91 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]

Other Designations

OTTHUMP00000174731

Pathway

- [Cytokine-cytokine receptor interaction](#)

- [Jak-STAT signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Cardiovascular Diseases](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)
- [Disease Models](#)
- [Eating Disorders](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Mental Disorders](#)
- [Multiple Sclerosis](#)
- [Obesity](#)
- [Overweight](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Weight Gain](#)
- [Weight Loss](#)