# **Recombinant Human CNTF Protein**

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Catalog No.: RP00039 Recombinant

## **Sequence Information**

**Species Gene ID Swiss Prot** Human 1270 P26441

**Tags** C-His

**6**----

Synonyms CNTF;HCNTF

### **Product Information**

Source Purification

E. coli ≥ 95 % as
determined by SDSPAGE.

Calculated MW Observed MW

23.77 kDa 25-35 kDa

#### **Endotoxin**

< 1 EU/µg of the protein by LAL method.

#### **Formulation**

Lyophilized from a 0.22 µm filtered solution of 20mM Tris, 150mM NaCl, pH 8.0.Contact us for customized product form or formulation.

#### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

# Contact

<u>a</u>	400-999-6126
$\bowtie$	cn.market@abclonal.com.cn
•	www.abclonal.com.cn

### **Background**

The protein 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 protein, which results in aberrant splicing, leads to ciliary neurotrophic factor deficiency, but this phenotype is not causally related to neurologic disease.

#### **Basic Information**

#### Description

Recombinant Human CNTF Protein is produced by E. coli expression system. The target protein is expressed with sequence (Met1-Met200) of human CNTF (Accession #NP\_000605.1) fused with a  $6\times$ His tag at the C-terminus.

#### **Bio-Activity**

Measured in a cell proliferation assay using TF-1 human erythroleukemic cell line. The  $ED_{s_0}$  for this effect is 13.5-54 ng/mL.

#### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

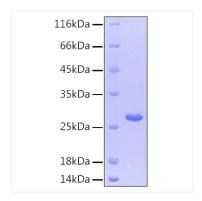
Avoid repeated freeze/thaw cycles.

#### **Operational Notes**

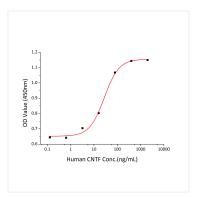
For your safety and health, please wear a lab coat and disposable gloves for handling.

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# **Validation Data**



Recombinant Human CNTF Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Human CNTF stimulates cell proliferation of the TF-1 human erythroleukemic cell line. The ED $_{50}$  for this effect is 13.5-54 ng/mL.