

# Human CNTF/Ciliary Neurotrophic Factor (His Tag) recombinant protein



Catalog Number: 500327

## General Information

### Protein Construction

A DNA sequence encoding the human CNTF (NP\_000605.1) (Ala 2-Met 200) was expressed, with a polyhistidine tag at the N-terminus.

### Organism

Human

### Expression Host

E. coli

## QC Testing

### Activity

1. Measured by its binding ability in a functional ELISA. Immobilized human His-CNTF (cat:500327) at 10 µg/ml (100 µl/well) can bind biotinylated rat CNTFR-His (Cat:501299). The EC<sub>50</sub> of biotinylated rat CNTFR-His (Cat:501299) is 60-140 ng/ml.
2. Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED<sub>50</sub> for this effect is typically 1-4 µg/mL.

### Purity

> 90 % as determined by SDS-PAGE

### Endotoxin

Please contact us for more information.

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Met

### Molecular Mass

The recombinant human CNTF consisting of 214 amino acids and has a calculated molecular mass of 24.5 kDa. The apparent molecular mass of the protein is approximately 27-30 kDa in SDS-PAGE under reducing conditions.

### Formulation

- Lyophilized from sterile PBS, pH 7.4
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
  2. Please contact us for any concerns or special requirements.

## Usage Guide

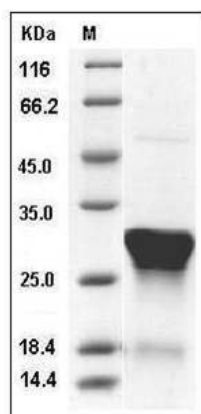
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Human CNTF Protein (His Tag) SDS-PAGE