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Recombinant Human CNTF Protein

Catalog No.: RP00039 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	1270	P26441

Tags
C-His

Synonyms
CNTF;HCNTF

Product Information

Source
E. coli

Purification
> 97% by SDS-PAGE.

Endotoxin
< 1.0 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 votex 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

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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.

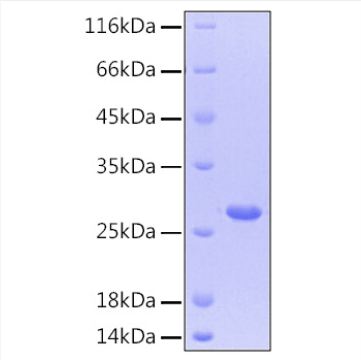
Basic Information

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×His tag at the C-terminus.

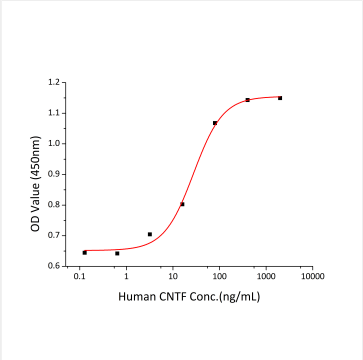
Bio-Activity
Measured in a cell proliferation assay using TF-1 human erythroleukemic cell line. The ED_{50} for this effect is 13.5-54 ng/mL.

Storage
Store the lyophilized protein at -20°C to -80 °C for long term.
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.

Validation Data



Active Recombinant Human CNTF Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 27 kDa.



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.