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Recombinant Rat CNTF Protein

Catalog No.: RP01671 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Rat	25707	P20294

Tags
C-6His

Synonyms
CNTF

Product Information

Source	Purification
E. coli	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
23.69 kDa	25-30 kDa

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

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

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

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Background

Ciliary neurotrophic factor (CNTF) is a member of the cytokine family. It is a polypeptide hormone that has functions in promoting neurotransmitter synthesis and neurite outgrowth in certain neuronal populations. Its actions appear to be restricted to the nervous system. Ciliary neurotrophic factor (CNTF) has biological effects through the activation of a multi-subunit receptor complex, consisting of an extracellular CNTF binding subunit (CNTFα) and two transmembrane signal transduction proteins: glycoprotein gp130 and LIF receptor. CNTF is considered as a potent survival factor of neurons and oligodendrocyteands may be relevant in reducing tissue destruction during inflammatory attacks. CNTF also is a survival factor for neurons of the peripheral sensory sympathetic and ciliary ganglia. It has been reported that CNTF could be an agent that has therapeutic potential and possibly induces differentiation of large multipolar ganglionic phenotype in a subset of progenitors.

Basic Information

Description
Recombinant Rat CNTF Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Met1-Met200) of rat CNTF (Accession #NP_037298.1) fused with and a 6×His tag at the C-terminus.

Bio-Activity
Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED_{50} for this effect is 14.08-56.34 ng/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃
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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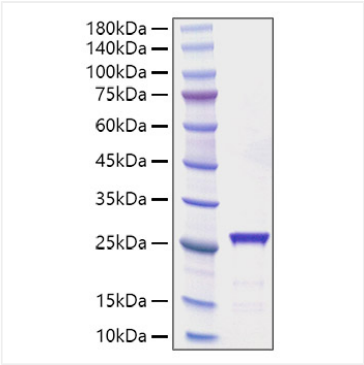
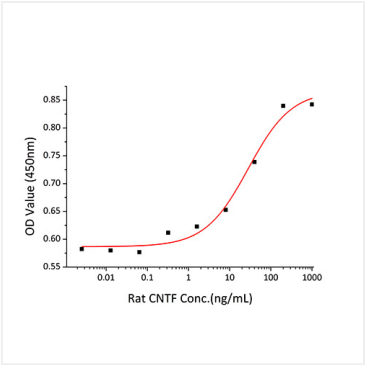
Validation Data



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



Recombinant Rat CNTF stimulates cell proliferation of the TF-1 human erythroleukemic cells. The ED_{50} for this effect is 14.08-56.34 ng/mL, corresponding to a specific activity of 6.25×10^4~0.25×10^6 units/mg.