

Recombinant Mouse CNTF Protein

Catalog No.: RP00795

Sequence Information

Species **Gene ID**
Mouse 12803

Swiss Prot **Tags**
P51642 C-6His

Synonyms

Cntf, Ciliary neurotrophic factor, CNTF

Product Information

Source **Purification**
E. coli ≥ 90 % as
determined by
SDS-PAGE.

Calculated MW **Observed MW**
22.59 kDa

Endotoxin

< 0.1 EU per µg of the protein as determined by the LAL method.

Formulation

Lyophilized from 0.22µm filtered solution in 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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 (CNTF 伪) and two transmembrane signal transduction proteins: glycoprotein gp130 and LIF receptor. CNTF is considered as a potent survival factor of neurons and oligodendrocyte and 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 Mouse CNTF Protein is produced by *E. coli* cells expression system. The target protein is expressed with sequence (Met1–Met198) of Mouse CNTF (Accession #P51642) fused with a His tag at the C-terminus.

Activity

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°C

Operational Notes

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

Contact

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Validation Data

No validation data available.