PRODUCT DATA SHEET

Bioworld Technology,Inc.

Recombinant CNTF, Mouse

Catalog Number: BK0018-10μg Source: Escherichia coli. Quantity: 10μg

Description:

Ciliary Neurotrophic Factor (CNTF) is a polypeptide hormone which acts within the nervous system where it promotes neurotransmitter synthesis and neurite outgrowth in certain neuronal populations. CNTF is a potent survival factor for neurons and oligodendrocytes and may play a role in reducing tissue damage during increased inflammation. A mutation in this gene, which results in aberrant splicing, leads to ciliary neurotrophic factor deficiency, however this phenotype is not causally related to neurologic disease. Recombinant Mouse CNTF produced in E.coli is a single, non-glycosylated polypeptide chain of 197 amino acids and a molecular mass of 22.6 kDa. It has been purified by chromatographic techniques.

Molecular Weight:

22.6 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE.

Biological Activity:

ED50 < 30ng/ml, measured by its ability to induce alkaline phosphatase production byTF-1 Cells.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS

AA Sequence:

AFAEQSPLTLHRRDLCSRSIWLARKIRSDL-
TALMESYVKHQGLNKNISLD
SVDGVPVASTDRWSEMTE-
AERLQENLQAYRTFQGMLTKLLEDQRVHFTPT
EGDFHQAIHTLTLQVSAFA-
YQLEELMALLEQKVPEKEADGMPVTIGDGGL
FEKKLWGLKVLQELSQWTVRSIHDLRVISSHHM
GISAHESHYGAKQM

Endotoxin:

< 0.2 EU/μg, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O at 100 μg/ml.

Storage:

Lyophilized recombinant Mouse CNTF remains stable up to 6 months at -80℃ from date of receipt. Upon reconstitution, Mouse CNTF should be stable up to 1 week at 4℃ or up to 3 months at -20℃.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.

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