

Overview

Synonyms	Ciliary Neurotrophic Factor
Description	<p>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.</p> <p>Recombinant Mouse CNTF produced in <i>E. coli</i> 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.</p>
Accession No	P51642
Source	<i>E. coli</i>
Biological Activity	ED ₅₀ < 30 ng/ml, measured by its ability to induce alkaline phosphatase production by TF-1 Cells.
Sequence	Ala ² -Met ¹⁹⁸ (accession #: P51642)

Properties

Measured Molecular Weight	22.6 kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE.
Formulation	Lyophilized after extensive dialysis against PBS
Reconstitution	Reconstituted in ddH ₂ O at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant Mouse CNTF remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Mouse CNTF should be stable up to 1 week at 4°C or up to 3 months at -20°C.
Note	For research use only

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