Active Recombinant Mouse Cntf Protein (197 aa)

Cat. No. Cntf-434C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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.
Species	Mouse
Source	E.coli
ProteinLength	197
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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 30 ng/mL, measured by its ability to induce alkaline phosphatase production byTF-1 Cells.
Molecular Mass	22.6 kDa, observed by reducing SDS-PAGE.

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AA Sequence	AFAEQSPLTLHRRDLCSRSIWLARKIRSDLTALMESYVKHQGLNKNISLDSVDGVPV ASTDRWSEMTEAERLQENLQAYRTFQGMLTKLLEDQRVHFTPTEGDFHQAIHTLTL QVSAFAYQLEELMALLEQKVPEKEADGMPVTIGDGGLFEKKLWGLKVLQELSQWTV RSIHDLRVISSHHMGISAHESHYGAKQM
Endotoxin	< 0.2 EU/µg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant Mouse CNTF remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Mouse CNTF should be stable up to 1 week at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS
Reconstitution	Reconstituted in ddH2O at 100 µg/mL.

GENE INFORMATION

Gene Name	Cntf ciliary neurotrophic factor [Mus musculus]
Official Symbol	Cntf
Synonyms	CNTF; ciliary neurotrophic factor; AI429687; MGC41235;
Gene ID	12803
mRNA Refseq	NM_170786
Protein Refseq	NP_740756

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UniProt ID	P51642

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