

Recombinant Active Mouse CNTF Protein, His-tagged(C-ter)

Cat. No. Cntf-44M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Active Mouse CNTF Protein with His tag (C-ter) was expressed in E. coli.
Species	Mouse
Source	E.coli
Description	The protein encoded by this gene is a polypeptide hormone whose actions appear to be restricted to the nervous system where it promotes neurotransmitter synthesis and neurite outgrowth in certain neuronal populations. The protein is a potent survival factor for neurons and oligodendrocytes and may be relevant in reducing tissue destruction during inflammatory attacks. A mutation in this gene, which results in aberrant splicing, leads to ciliary neurotrophic factor deficiency, but this phenotype is not causally related to neurologic disease. A read-through transcript variant composed of the upstream ZFP91 gene and CNTF sequence has been identified, but it is thought to be non-coding. Read-through transcription of ZFP91 and CNTF has also been observed in mouse. [provided by RefSeq, Oct 2010]
Form	Powder
Bio-activity	Determined by its ability to induce proliferation in TF-1 cells. The ED50 for this effect is < 10 ng/mL. The specific activity of recombinant mouse CNTF is > 1 x 10 ⁵ IU/mg.
AA Sequence	MAFAEQSPLTLHRRDLCSRSIWLARKIRSDLTALMESYVKHQGLNKNISLDSVDGVP VASTDRWSEMTEAERLQENLQAYRTFQGMLTKLLEDQRVHFTPTGDFHQAHTLT

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	LQVSAFAYQLEELMALLEQKVPEKEADGMPVTIGDGGLFEKKLWGLKVLQELSQWT VRSIHDLRVISSHHMGISAHESHYGAQM
Endotoxin	Endotoxin level is less than 0.1 EU/μg of the protein, as determined by the LAL test.
Purity	> 98% (by SDS-PAGE)
Applications	SDS-PAGE
Notes	For laboratory research only, not for drug, diagnostic or other use.
Storage	Lyophilized protein should be stored at -20°C. After reconstitution, aliquot and store at -20°C or -80°C for up to one month. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.
Storage Buffer	PBS (pH 7.4)
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL and incubate the stock solution for at least 20 min at room temperature to make sure the protein is dissolved completely.

GENE INFORMATION

Gene Name	Cntf ciliary neurotrophic factor [<i>Mus musculus</i>]
Official Symbol	Cntf
Synonyms	CNTE; ciliary neurotrophic factor; AI429687; MGC41235;
Gene ID	12803

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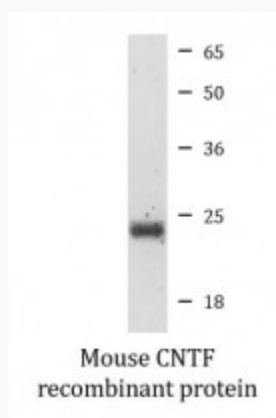
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mRNA Refseq [NM_170786](#)

Protein Refseq [NP_740756](#)

SDS-PAGE



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