

Active GMP Recombinant Mouse Cntf Protein, His-Tagged

Cat. No. Cntf-01M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GMP Recombinant Mouse Cntf Protein, His-Tagged was expressed in Escherichia coli cell-derived in an animal component free process under cGMP guidelines.
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 it may be involved in reducing tissue destruction during inflammatory attacks. A read-through transcript variant composed of Zfp91 and Cntf sequences has been identified, but it is thought to be non-coding. Read-through transcription of Zfp91 and Cntf has been observed in both human and mouse.
Form	Lyophilized
Bio-activity	Measure 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 VASTDRWSEMTEAERLQENLQAYRTFQGMLTKLLEDQRVHFTPTGDFHQAIHTLT LQVSAFAYQLEELMALLEQKVPEKEADGMPVTIGDGGLFEKKLWGLKVLQELSQWT VRSIHDLRVISSHMGISAHESHYGAQM with polyhistidine tag at the Cterminus

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Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE. Ni-NTA chromatography
Notes	Please use within one month after protein reconstitution.
Storage	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
Storage Buffer	The protein was lyophilized from a solution containing 1X PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

GENE INFORMATION

Gene Name	Cntf ciliary neurotrophic factor [Mus musculus (house mouse)]
Official Symbol	Cntf
Gene ID	12803
mRNA Refseq	NM_170786.2
Protein Refseq	NP_740756.1
UniProt ID	P51642

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