

Ciliary Neurotrophic Factor Active Protein | mCNTF active protein

Recombinant Mouse Ciliary Neurotrophic Factor

CATALOG # AAA38894	HOST E Coli
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PRODUCT SYNONYMS

Ciliary Neurotrophic Factor; Recombinant Mouse Ciliary Neurotrophic Factor; CNTF Mouse; Ciliary-Neurotrophic Factor Mouse Recombinant; HCNTF; CNTF; mCNTF active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	Lyophilized from a 0.2 um filtered concentrated solution in PBS, pH 7.4. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	MAFAEQSPLT LHRRLCSRS IWLARKIRSD LTALMESYVK HQGLNKNISL DSVDGVPVAS TDRWSEMT ERLQENLQAY RTFQGMLTKL LEDQRVHFTP TEGDFHQAIH TLTQVSAFA YQLEELMALL EQKVPEKEAD GMPVTIGDGG LFEKKLWGLK VLQELSQWTV RSIHDLRVIS SHHMGISAHE SHYGAKQM
Sequence Length	198
Solubility	It is recommended to reconstitute the lyophilized CNTF in sterile 18M-cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	Fully biologically active when compared to standard. The ED50 as determined by the dose-dependant stimulation of TF-1 cells is less than 35ng/ml, corresponding to a Specific Activity of 3.0x10 ⁴ IU/mg.
Preparation and Storage	Lyophilized Ciliary Neurotrophic Factor although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution CNTF should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for mCNTF active protein	Description: Ciliary Neurotrophic Factor Recombinant Mouse produced in E Coli is a single, non-glycosylated polypeptide chain containing 198 amino acids and having a molecular mass of 22.6kDa. The CNTF is purified by proprietary chromatographic techniques. Introduction: CNTF 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. In addition to the predominant monocistronic transcript originating from this locus, the gene is also co-transcribed with the upstream ZFP91 gene. Co-transcription from the two loci results in a transcript that contains a complete coding region for the zinc finger protein but lacks a complete coding region for ciliary neurotrophic factor. CNTF is a survival factor for various neuronal cell types. Seems to prevent the degeneration of motor axons after axotomy.
Product Categories/Family for mCNTF active protein	Cytokines and Growth Factors; Neurotrophins; Ciliary-Neurotrophic Factor

NCBI AND UNIPROT INFORMATION

NCBI GI #	25952141
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NCBI GeneID	12803
NCBI Accession #	NP_740756.1
NCBI GenBank Nucleotide #	NM_170786.2
UniProt Accession #	P51642
Molecular Weight	22,587 Da
NCBI Official Full Name	ciliary neurotrophic factor
NCBI Official Synonym Full Names	ciliary neurotrophic factor
NCBI Official Symbol	Cntf
NCBI Official Synonym Symbols	AI429687
NCBI Protein Information	ciliary neurotrophic factor
UniProt Protein Name	Ciliary neurotrophic factor
UniProt Gene Name	Cntf
UniProt Synonym Gene Names	CNTF
UniProt Entry Name	CNTF_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-mcntf-active-protein/ciliary-neurotrophic-factor/38894>