9051 Mira Mesa Blvd, #910094
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CNTF Rat

Ciliary Neurotrophic Factor Rat Recombinant
NTR0017

Product Overview

Name	CNTF Rat
Description	
Ciliary Neurotrophic Factor Rat Recombinant	
Accession (Primary)	P20294
Synonyms	
HCNTF, CNTF, Ciliary Neurotrophic Factor.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a concentrated (1mg/ml) solution in water containing 0.025% NaHCO3.	
Stability	
Lyophilized CNTF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CNTF should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.	
Purity	
Greater than 99.0% as determined by: (a) Analysis by Gel Filtration. (b) Analysis by SDS-PAGE.	

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Amino acid sequence

AFAEQTPLTL HRRDLSSRSIWLARKIRSDLTALMESYVKHQGLNKNI

NLDSVDGVPVASTDRWSEMTEAERLQENLQAYRTFQGMLTKLLEDQRV

HFTPTEGDFHQAIHTLMLQVSAFAYQLEELMVLLEQKIPENEADGMPA

TVGDGGLFEKKLWGLKVLQELSQWTVRSIHDLRVISSHQMGISALESH YGAKDKQM.

Biological Activity

Fully biologically active by its ability to phosphorylate STAT3 in several cells lines.

Solubility

It is recommended to reconstitute the lyophilized CNTF in sterile water or 0.4% NaHCO3 adjusted to pH 8-9, not less than 100 µg/ml, which can then be further diluted to other aqueous solutions, preferably in presence of carrier protein.

Precautions

CNTF Rat is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P20294)