

## Cntf

## Recombinant Mouse Ciliary Neurotrophic Factor

<b>Catalog No.</b>	CS494A CS494B CS494C	<b>Quantity:</b>	5 µg 20 µg 1 mg
<b>Description:</b>	<p>Ciliary neurotrophic factor (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. CNTF was initially identified as a trophic factor for embryonic chick ciliary para-sympathetic neurons in culture. Furthermore, the protein is also a potent survival factor for neurons and oligodendrocytes and may be relevant in reducing tissue destruction during inflammatory attacks. In addition, CNTF is useful for treatment of motor neuron disease and it could reduce food intake without causing hunger or stress. Recombinant mouse CNTF containing 198 amino acids and it shares 82% and 95% a.a. sequence identity with human and rat CNTF.</p> <p>Recombinant Mouse Ciliary Neurotrophic Factor is a single non-glycosylated polypeptide chain containing 197 amino acids.</p>		
<b>Gene ID:</b>	12803		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	22.4 kDa		
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered concentrated solution in 2 × PBS, pH 7.4 + 2% trehalose.		
<b>Purity:</b>	>95% by SDS-PAGE and HPLC analyses.		
<b>Endotoxin Level:</b>	<1 EU/µg as determined by LAL method.		
<b>Biological Activity:</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> determined by a cell proliferation assay using human TF-1 cells is less than 30 ng/ml.		
<b>Specific Activity:</b>	>3.3 × 10 <sup>4</sup> IU/mg.		
<b>Amino Acid Sequence:</b>	AFAEQSPLTL HRRDLCSRSI WLARKIRSDL TALMESYVKH QGLNKNISLD SVDGVPVAST DRWSEMTEAE RLQENLQAYR TFQGMLTKLL EDQRVHFTPT EGDFHQAIHT LTLQVSAFAY QLEELMALLE QKVPEKEADG MPVTIGDGGFLFEKKLWGLKV LQELSQWTVR SIHDLRVISS HHMGISAHES HYGAKQM		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. This depends upon the particular application employed. Further dilutions should be made in appropriate buffered solutions.		
<b>Storage &amp; Stability:</b>	This lyophilized preparation is stable at 2-8°C, but should be kept desiccated at -20°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. <b>Avoid repeated freeze/thaw cycles.</b>		

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