

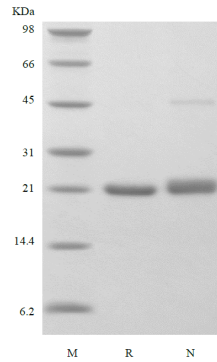
Cntf

Recombinant Mouse Ciliary Neurotrophic Factor

Catalog No.	CS494A CS494B CS494C CS494D	Quantity:	5 µg 25 µg 500µg 100 µg
Alternate Names:	Ciliary neurotrophic factor, CNTF		
Description:	Ciliary neurotrophic factor (CNTF) is a 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 shares 82% and 95% a.a. sequence identity with human and rat CNTF.		
UniProt ID:	P51642		
Source:	<i>E. coli</i>		
Molecular Weight:	22.5 kDa (197 aa) monomer		
Formulation:	Lyophilized from sterile filtered 20 mM phosphate buffer, pH 7.4, 150 mM NaCl, with 5 % Trehalose, 0.02 % Tween-20		
Purity:	>95% by SDS-PAGE and HPLC analyses.		
Endotoxin Level:	<1 EU/µg as determined by LAL method.		
Biological Activity:	ED ₅₀ < 30 ng/ml, determined by a cell proliferation assay using human TF-1 cells		
Specific Activity:	> 3.3 × 10 ⁴ IU/mg.		
Amino Acid Sequence:	AFAEQSPLTL HRRDLCSRSI WLARKIRSDL TALMESYVKH QGLNKNISLD SVDGVPVAST DRWSEMTEAE RLQENLQAYR TFQGMLTKLL EDQRVHFTPT EGDFHQAIHT LTLQVSAFAY QLEELMALLE QKVPEKEADG MPVTIGDGGLFEKKLWGLKV LQELSQWTVR SIHDLRVISS HHMGISAHES HYGAKQM		
Reconstitution:	Centrifuge vial prior to opening. 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 dilution should be made in appropriate buffered solutions.		
Storage & Stability:	Store lyophilized protein at -20°C to -80°C for 1 year. Upon reconstitution, store for up to one month at 2-8°C or 3 months in aliquots at -20°C to -80°C. Avoid repeated freeze/thaw cycles.		



SDS-PAGE



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