

Recombinant Human Ciliary Neurotrophic Factor

Information

Escherichia coli.		
Approximately 22.9 kDa, a single non-glycosylated polypeptide chain containin 200 amino acids.		
MAFTEHSPLT PHRRDLCSRS IWLARKIRSD LTALTESYVK HQGLNKNINL DSADGMPVAS TDQWSELTEA ERLQENLQAY RTFHVLLARL LEDQQVHFTF TEGDFHQAIH TLLLQVAAFA YQIEELMILL EYKIPRNEAD GMPINVGDGG LFEKKLWGLK VLQELSQWTV RSIHDLRFIS SHQTGIPARG SHYIANNKKM		
Sterile Filtered White lyophilized (freeze-dried) powder.		
Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 12 months from date of receipt, -20 to -70 °C as supplied - 1 month, 2 to 8 °C under sterile conditions after reconstitution - 3 months, -20 to -70 °C under sterile conditions after reconstitution		
Lyophilized from a 0.2 μ m filtered solution in PBS, pH 7.0, with 5 % Trehalose 0.02 % Tween-20.		
We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at \leq -20 °C. Further dilutions should be made in appropriate buffered solutions.		
Testing in progress.		
Gel pack.		
Centrifuge the vial prior to opening.		
For Research Use Only! Not to be used in humans.		

Components and Storage

Feb	5µg	100µg	500µg
Components		100µ9	000µ9
Recombinant Human Ciliary Neurotrophic	5µg	100µg	500µg
Factor	Эрд	тоору	эоорд

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Quality Control

Purity	> 97 % by SDS-PAGE and HPLC analyses.	P grant to the time
Endotoxin	Less than 0.1 EU/μg of rHuCNTF as determin	ned by LAL method.

Description

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. It was initially identified as a trophic factor for embryonic chick ciliary parasympathetic neurons in culture. 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. CNTF is structurally related to IL-6, IL-11, LIF and OSM. All of these four helix bundle cytokines share gp130 as a signal-transducing subunit in their receptor complexes. Recombinant human CNTF containing 200 amino acids and it shares 82 % and 83 % a.a. sequence identity with mouse and rat CNTF.

Reference





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