

Recombinant Human Ciliary Neurotrophic Factor

Catalog No: #AP60105

Package Size: #AP60105-1 5ug #AP60105-2 100ug #AP60105-3 500ug

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Description

Product Name	Recombinant Human Ciliary Neurotrophic Factor
Host Species	E.coli
Purification	> 97 % by SDS-PAGE and HPLC analyses.
Other Names	CNTF
Calculated MW	Approximately 22.9 kDa, a single non-glycosylated polypeptide chain containing 200 amino acids.
Target Sequence	MAFTEHSPLT PHRDLCRSR IWLARKIRSD LTALTESYVK HQGLNKNINL DSADGMPVAS TDQWSELTEA ERLQENLQAY RTFHVLLARL LEDQQVHFTP TEGDFHQAIH TLLQVAAFA YQIEELMILL EYKIPRNEAD GMPINVGDDG LFEKKLWGLK VLQELSQWTV RSIHDLRFIS SHQTGIPARG SHYIANNKKM
Formulation	LyophilizedB fromB aB 0.2B umB filteredB concentratedB solutionB inB PBS.B
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. -□A minimum of 12 months from date of receipt, when stored at ≤-20 °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.

Background

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.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.