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CNTF
Recombinant Human Ciliary Neurotrophic Factor

Catalog No.	CRC400A	**Quantity:**	5 µg
	CRC400B		20 µg
	CRC400C		1.0 mg

Alternate Names: CNTF

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. The protein is a potent survival factor for neurons and oligodendrocytes and may be relevant in reducing tissue destruction during inflammatory attacks. CNTF has also been shown to prevent the degeneration of motor axons after axotomy. CNTF is highly conserved across species and exhibits cross-species activity. It plays an important protective role during nervous system injury.

Gene ID: 1270

UniProt ID: P26441

Source: *E. coli*

Molecular Weight: Monomer, 22.9 kDa (200 aa)

Formulation: Lyophilized from a sterile-filtered solution containing 10 mM sodium phosphate, pH 7.5

Purity: >95% by reducing and non-reducing SDS-PAGE

Endotoxin Level: ≤1 EUs/µg by kinetic LAL

Biological Activity: ED_{50} ≤ 325 ng/ml, determined by the dose-dependent stimulation of TF-1 cells.

Specific Activity: ≥ 3.1 x 10^3 units/mg

Amino Acid Sequence: MAFTEHSPLT PHRRDLCSRS IWLARKLRSD LTALTESYVK HQGLNKNINL DSADGMPVAS TDQWSELTEA ERLQENLQAY RTFHVLLARL LEDQQVHFTP TEGDFHQAIH TLLLQVAAFA YQIEELMILL EYKIPRNEAD GMPINVGDGG LFEKKLWGLK VLQELSQWTV RSIHDLRFIS SHQTGIPARG SHYIANNKKM

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette up and down the sides of the vial. **DO NOT VORTEX.** Allow several minutes for complete reconstitution.

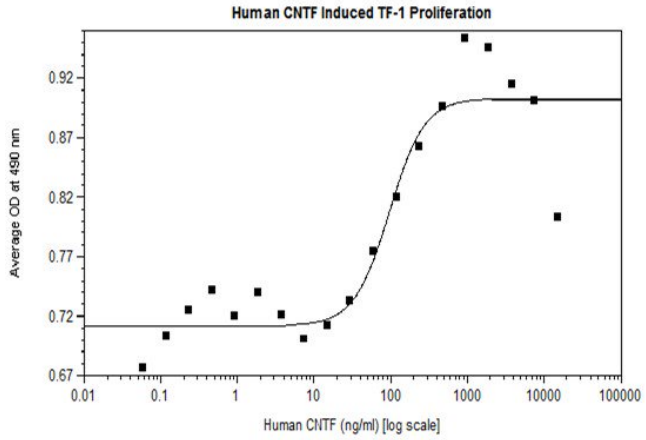
Storage & Stability: **Upon receipt**, store at -20°C to -80°C for up to one year. **Upon reconstitution**, store at 2-8°C for one month. **For long term storage** reconstitute in working aliquots containing 0.1% BSA and store at -20°C to -80°C.

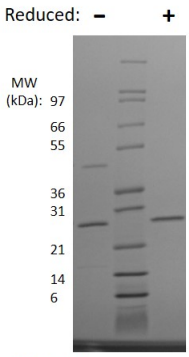
Avoid repeated freeze-thaw cycles

Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com





Human CNTF Gel

Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human CNTF has a predicted MW of 22.9 kDa.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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