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## DATASHEET

### Recombinant human CNTF protein

#### Product overview

<b>Name</b>	Recombinant human CNTF protein
<b>Cat No</b>	HB8968
<b>Biological description</b>	The CNTF neural factor appears to act only on the nervous system and is thought to promote neurotransmitter synthesis and neurite outgrowth in some neuronal populations.  It is potent survival factor for neurons and oligodendrocytes.
	CNTF is often used when differentiating hPSC-derived neural progenitor cells into astrocytes.
<b>Species of origin</b>	human
<b>Alternative names</b>	Recombinant Human Ciliary Neurotrophic Factor, HCNTF, CNTF, Ciliary Neurotrophic Factor.
<b>Biological action</b>	Activator
<b>Purity</b>	>98%
<b>Description</b>	Potent neural factor

#### Biological Data

<b>Application notes</b>	ED <sub>50</sub> = <2 ng/ml (determined by dose-dependent stimulation of TF-1 cells), corresponding to a specific activity of 500,000IU/mg.
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#### Solubility & Handling

<b>Storage instructions</b>	-20°C and avoid freeze thaw cycles
<b>Solubility overview</b>	To make a stock solution, reconstitute in sterile 18MΩcm water at a concentration > 100µg/ml, which can then be diluted to make a working solution
<b>Handling</b>	<ul style="list-style-type: none"><li>Solutions should be made in sterile deionized water (not less than 100 µg/ml). This solution can then be further diluted with other aqueous solutions.</li><li>Following reconstitution, solutions may be stored at 4°C and are useable for around 2-7 days and for future use store at -18°C.</li><li>Freeze-thaw cycles should be prevented.</li></ul>
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

#### Chemical Data

<b>UniProt ID</b>	P26441
<b>Molecular Weight</b>	22.7
<b>Source</b>	E. Coli.
<b>Appearance</b>	White lyophilized powder (sterile filtered & freeze-dried)
<b>Formulation</b>	Lyophilized from a concentrated (1mg/ml) solution in water containing 5mM sodium Phosphate buffer (pH 7.5) and 5mM sodium chloride

#### References

**The ciliary neurotrophic factor and its receptor, CNTFR alpha**

Sleeman MW *et al* (2000) Pharm Acta Helv 74(2-3)

**PubMedID**

[10812968](#)

**Ciliary neurotrophic factor (CNTF) promotes skeletal muscle progenitor cell (MPC) viability via the phosphatidylinositol 3-kinase-Akt pathway**

Hiatt K *et al* (2014) J Tissue Eng Regen Med 8(12)

**PubMedID**

[23147834](#)

**Ciliary neurotrophic factor (CNTF): New facets of an old molecule for treating neurodegenerative and metabolic syndrome pathologies**

Pasquin S *et al* (2015) Cytokine Growth Factor Rev 26(5)

**PubMedID**

[26187860](#)

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