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## DATASHEET

### Recombinant mouse CNTF protein

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#### Product overview

<b>Name</b>	Recombinant mouse CNTF protein
<b>Cat No</b>	HB8930
<b>Species of origin</b>	mouse
<b>Alternative names</b>	Recombinant Mouse Ciliary Neurotrophic Factor, HCNTF, CNTF, Ciliary Neurotrophic Factor.
<b>Purity</b>	>97%
<b>Description</b>	Mouse CNTF protein

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#### Biological Data

<b>Application notes</b>	Fully biologically active when compared to standard. $ED_{50} = <35\text{ng/ml}$ (determined by the dose-dependant stimulation of TF-1 cells), corresponding to a Specific Activity of $3.0 \times 10^4$ IU/mg.
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#### Solubility & Handling

<b>Solubility overview</b>	To make a stock solution, reconstitute in sterile 18MΩcm water at a concentration $> 100\mu\text{g/ml}$ , 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 <math>100\mu\text{g/ml}</math>). This solution can then be further diluted with other aqueous solutions.</li><li>Following reconstitution, solutions may be stored at <math>4^\circ\text{C}</math> and are useable for around 2-7 days and for future use store at <math>-18^\circ\text{C}</math>.</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

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#### Chemical Data

<b>Source</b>	E. Coli.
<b>Appearance</b>	White lyophilized powder (sterile filtered & freeze-dried)
<b>Formulation</b>	Lyophilized from a $0.2\mu\text{m}$ filtered solution in PBS (pH 7.4)

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#### 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

