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## DATASHEET

Recombinant human CNTF (His Tag) active protein

### Product overview

<b>Name</b>	Recombinant human CNTF (His Tag) active protein
<b>Cat No</b>	HB7414
<b>Species of origin</b>	human
<b>Alternative names</b>	Recombinant Human Ciliary Neurotrophic Factor, His Tag Active, Ciliary neurotrophic factor, CNTF, HCNTF.
<b>Purity</b>	>95%
<b>Description</b>	His tag active recombinant human BDNF protein

### Biological Data

<b>Application notes</b>	The $ED_{50} = \leq 1 \mu\text{g/ml}$ (for the effect measured in a cell proliferation assay using TF-1 human erythroleukemic cells)
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### Solubility & Handling

<b>Handling</b>	<ul style="list-style-type: none"><li>Solutions should be made in sterile deionized water (not less than 100 <math>\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 4°C and are useable for around 2-7 days and for future use store at -18°C.</li><li>For long term storage, a carrier protein (0.1% HSA or BSA) should be added to stock solutions. Solutions should be aliquoted into tightly sealed vials for storage at -20°C. 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>Source</b>	E. Coli.
<b>Appearance</b>	Clear solution (sterile filtered)
<b>Formulation</b>	Solution (1mg/ml) containing Tris-HCl buffer (20 mM, pH 8.5), DTT (1mM), 30% Glycerol and 200mM NaCl

### 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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