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# **DATASHEET**

Recombinant human CNTF (His Tag) active protein

#### **Product overview**

Name Recombinant human CNTF (His Tag) active protein

Cat No HB7414 Species of origin human

Alternative names Recombinant Human Ciliary Neurotrophic Factor, His Tag Active, Ciliary neurotrophic factor, CNTF,

HCNTF.

Purity >95%

**Description** His tag active recombinant human BDNF protein

## **Biological Data**

**Application notes** The ED<sub>50</sub> =  $\leq$ 1µg/ml (for the effect measured in a cell proliferation assay using TF-1 human

erythroleukemic cells)

## **Solubility & Handling**

Handling

- Solutions should be made in sterile deionized water (not less than 100  $\mu g/ml$ ). This solution can then be further diluted with other aqueous solutions.
- $\bullet$  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.
- 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.

**Shipping Conditions** 

**Important** 

Stable for ambient temperature shipping. Follow storage instructions on receipt.

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use.

### **Chemical Data**

UniProt ID P26441 Source E. Coli.

Appearance Clear solution (sterile filtered)

Formulation 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