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DATASHEET

Recombinant mouse CNTF protein

Product overview

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

Biological Data

Application notes	Fully biologically active when compared to standard. ED_{50} = <35ng/ml (determined by the dose-dependant stimulation of TF-1 cells), corresponding to a Specific Activity of $3.0x10^4$ IU/mg.

Solubility & Handling

Solubility overview	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
Handling	• 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. • 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. • Freeze-thaw cycles should be prevented.
Important	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	P51642
Source	E. Coli.
Appearance	White lyophilized powder (sterile filtered & freeze-dried)
Formulation	Lyophilized from a 0.2µm filtered solution in PBS (pH 7.4)

References

The ciliary neurotrophic factor and its receptor, CNTFR alpha

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