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DATASHEET

Recombinant rat CNTF protein

Product overview

Name	Recombinant rat CNTF protein
Cat No	HB9671
Biological description	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.
Species of origin	It is potent survival factor for neurons and oligodendrocytes. rat
Alternative names	Recombinant Rat Ciliary Neurotrophic Factor, HCNTF, CNTF, Ciliary Neurotrophic Factor.
Biological action	Activator
Purity	>99%
Description	Potent neural factor. Recombinant rat protein.

Biological Data

Application notes	Fully biologically active by its ability to phosphorylate STAT3 in several cells lines.
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Solubility & Handling

Solubility overview	To make a stock solution, reconstitute in sterile water or 0.4% NaHCO ₃ adjusted to pH 8-9, at a concentration > 100µg/ml, which can then be further diluted to other aqueous solutions, preferably in presence of carrier protein.
Handling	<ul style="list-style-type: none">• 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

Source	E. Coli.
Appearance	White lyophilized powder (sterile filtered & freeze-dried)
Formulation	Lyophilized from a solution (1mg/ml) in water containing 0.025% sodium bicarbonate

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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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
