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DATASHEET

Recombinant rat CNTF protein

Product overview

Name Recombinant rat CNTF protein

Cat No HB9671

Biological descriptionThe 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.

It is potent survival factor for neurons and oligodendrocytes.

Species of origin

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.

Solubility & Handling

Solubility overview To make a stock solution, reconstitute in sterile water or 0.4% NaHCO3 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.

 $\textbf{Handling} \qquad \qquad \bullet \text{ 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.

• 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.

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 P20294 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) **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)

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