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DATASHEET

Recombinant rat CNTF protein

Product overview

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| Name | Recombinant rat CNTF protein |
| Cat No | HB9671 |
| Biological description | <p>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.</p> <p>It is potent survival factor for neurons and oligodendrocytes.</p> |
| Species of origin | 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

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

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| 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

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| 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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Pasquin S *et al* (2015) Cytokine Growth Factor Rev 26(5)

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