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## DATASHEET

### Recombinant human NNT-1 protein

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#### Product overview

<b>Name</b>	Recombinant human NNT-1 protein
<b>Cat No</b>	HB9446
<b>Biological description</b>	<p>Cardiotrophin-like cytokine (CLC/ NNT-1) that belongs to the IL-6 family of cytokines.</p> <p>NNT1 is a trophic factor for motor neurons, a stimulator of ACTH release from corticotrophs and an inducer of IgE synthesis and B cell proliferation.</p>
<b>Species of origin</b>	human
<b>Alternative names</b>	Neurotrophin-1 Human Recombinant, Cardiotrophin-Like Cytokine Factor 1, Novel Neurotrophin-1 , BSF3, CLC, CRLF1 Associated Cytokine-Like Factor 1, B-Cell Stimulating Factor 3, B-Cell-Stimulating Factor 3, BSF-3, NNT-1, NNT1, Neurotrophin-1/B-Cell Stimulating Factor-3, Cold-Induced Sweating Syndrome 2, B-Cell Stimulatory Factor 3, CISS2, NR6, CLCF1.
<b>Purity</b>	>95%
<b>Description</b>	Human recombinant Neurotrophin-1 protein

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#### Biological Data

<b>Application notes</b>	The ED <sub>50</sub> = ≤15ng/ml (as measured in a cell proliferation assay using TF-1 cells transfected with human CNTF-R)
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#### Solubility & Handling

<b>Solubility overview</b>	To make a stock solution, reconstitute in sterile 18MΩcm water at a concentration > 0.5mg/ml, which can then be diluted to make a working solution
<b>Handling</b>	<ul style="list-style-type: none"><li>• 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.</li><li>• 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.</li><li>• 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.</li></ul>
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

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#### Chemical Data

<b>UniProt ID</b>	Q9UBD9
<b>Source</b>	E. Coli.
<b>Appearance</b>	White lyophilized powder (sterile filtered & freeze-dried)
<b>Formulation</b>	Lyophilized from a 0.2µm filtered solution in acetonitrile and TFA

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#### References

### **Pan-neurotrophin 1: a genetically engineered neurotrophic factor displaying multiple specificities in peripheral neurons in vitro and in vivo**

Ilag LL *et al* (1995) Proc Natl Acad Sci U S A 92(2)

**PubMedID** [7831338](#)

### **Novel neurotrophin-1/B cell-stimulating factor-3: a cytokine of the IL-6 family**

Senaldi G *et al* (1999) Proc Natl Acad Sci U S A 96(20)

**PubMedID** [10500198](#)

### **Characterization of recombinant human brain-derived neurotrophic factor variants**

Sunasara KM *et al* (1999) Arch Biochem Biophys 372(2)

**PubMedID** [10600162](#)

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