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**Product Data Sheet**


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Product Name: NNT1 Human  
 Cat. No.: GP20766  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	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.		
Amino Acid Sequence	MLNRTGDPGP GPSIQKTYDL TRYLEHQLRS LAGTYLNYLG PPFNEPDFNP PRLGAETLPR ATVDLEWRS LNDKLRRLTQN YEAYSHLLCY LRGLNRQAAT AELRRSLAHF CTSLQGLLGS IAGVMAALGY PLPQPLPGTE PTWTPGPAHS DFLQKMDDFW LLKELQTLW RSAKDFNRLK KKMQPAAAV TLHLGAHGF.		
Solubility	It is recommended to reconstitute the lyophilized NNT1 in sterile 18M-cm H2O not less than 0.5mg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	NNT-1 protein was lyophilized from a 0.2µm filtered solution in Acetonitrile and TFA.		

**Introduction**

Cardiotrophin-like cytokine (CLC/ NNT-1) belongs to the IL-6 family of cytokines. All family members share the receptor subunit gp130, which belongs to the type I cytokine receptor superfamily. 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. Cells expressing NNT-1 include embryonic muscle, lung epithelium, and mesenchyme. NNT1 binds to and activates the ILST/gp130 receptor.

**Biological Activity**

The ED50, as measured in a cell proliferation assay using human TF?1 cells transfected

**Caution: Product has not been fully validated for medical applications. For research use only.**

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with human CNTF R?, is less than 15ng/ml.

### Stability

Lyophilized Neurotrophin-1 although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution NNT1 should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

Neurotrophin-1 Human Recombinant (28-225) produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 199 amino acids and having a molecular mass of 22kDa. The NNT-1 is purified by proprietary chromatographic techniques.

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