Hello Bio, Inc. 304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500 F. 609-228-4994

customercare-usa@hellobio.com



# **DATASHEET**

Recombinant human NNT-1 protein

#### **Product overview**

Name Recombinant human NNT-1 protein

Cat No HB9446

**Biological description** Cardiotrophin-like cytokine (CLC/ NNT-1) that belongs to the IL-6 family of cytokines.

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.

Species of origin human

Alternative names 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.

**Purity** >95%

Description Human recombinant Neurotrophin-1 protein

# **Biological Data**

Handling

The  $ED_{50} = \le 15$  ng/ml (as measured in a cell proliferation assay using TF-1 cells transfected with **Application notes** 

human CNTF-R)

# **Solubility & Handling**

Solubility overview To make a stock solution, reconstitute in sterile  $18M\Omega$ cm water at a concentration > 0.5mg/ml, which

can then be diluted to make a working solution

• 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.

 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.

**Shipping Conditions** Stable for ambient temperature shipping. Follow storage instructions on receipt. **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

**UniProt ID** Q9UBD9 Source F. Coli.

White lyophilized powder (sterile filtered & freeze-dried) **Appearance** 

**Formulation** Lyophilized from a 0.2µm filtered solution in acetonitrile and TFA

#### References

#### vitro and in vivo

llag 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)

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