

# Recombinant Human Cardiotrophin-like Cytokine Factor 1

**Cat. No.** CLCF1-953H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human NNT-1/BCSF-3 produced in <i>E. Coli</i> is a 22.4 kDa protein containing 199 amino acid residues.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	NNT-1/BCSF-3 is a neurotrophic factor with B-cell stimulating capabilities. Expressed in lymph nodes and spleen, NNT-1/BCSF-3 binds and activates glycoprotein 130 (gp130) and leukemia inhibitory factor receptor member beta (LIFR-beta) and induces tyrosine phosphorylation of these receptors. In vitro, it supports the survival of chick embryo motor and sympathetic neurons. In mice, NNT-1/BCSF-3 induces serum amyloid A, causes body weight loss and B cell hyperplasia associated with increased in serum IgG and IgM.
<b>Purity</b>	> 98% by SDS-PAGE and HPLC analysis.
<b>Endotoxin Level</b>	< 0.1 ng per µg of NNT-1/BCSF-3.
<b>Stabilizer</b>	None.
<b>Formulation</b>	Lyophilized.
<b>Biological Activity</b>	NT-1/BCSF-3 weakly supports chick E8 DRG neurite outgrowth at a concentration of 1.0 ng/ml.

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**Reconstitution** The human NNT-1/BCSF-3 should be reconstituted in water to a concentration of 0.1-1.0 mg/ml. This solution can be diluted in water or other buffer solutions or stored at -20°C.

**Stability** The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C. Reconstituted human NNT-1/BCSF-3 should be stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.

**Pathways** Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway

## GENE INFORMATION

**Gene Name** [CLCF1](#) cardiotrophin-like cytokine factor 1 [ *Homo sapiens* ]

**Synonyms** cardiotrophin-like cytokine factor 1; CLC; NR6; BSF3; NNT1; BSF-3; CISS2; NNT-1; CLCF1; novel neurotrophin-1; B-cell stimulating factor 3; B-cell stimulatory factor 3; CRLF1 associated cytokine-like factor 1; neurotrophin-1/B-cell stimulating factor-3; B cell-stimulating factor 3; cold-induced sweating syndrome 2

**Gene ID** [23529](#)

**mRNA Refseq** [NM\\_001166212](#)

**Protein Refseq** [NP\\_001159684](#)

**MIM** [607672](#)

**UniProt ID** [Q9UBD9](#)

**Chromosome Location** 11q13.3

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**Function**

cytokine activity; growth factor activity

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