Recombinant Human Cardiotrophin-like Cytokine Factor 1

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

SPECIFICATION

Product Overview	Recombinant human NNT-1/BCSF-3 produced in*E.Coli*is a 22.4 kDa protein containing 199 amino acid residues.
Species	Human
Source	E.coli
Description	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.
Purity	> 98% by SDS-PAGE and HPLC analysis.
Endotoxin Level	< 0.1 ng per μg of NNT-1/BCSF-3.
Stabilizer	None.
Formulation	Lyophilized.
Biological Activity	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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