



Recombinant Human NNT-1 (BCSF-3)

20220728BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-259S
Size:	2 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	23529
Synonyms:	CLCF1; CLC; NR6; BSF3; NNT1; BSF-3; CISS2; NNT-1

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. Recombinant human NNT-1/BCSF-3 is a 22.4 kDa protein containing 199 amino acid residues.

Sequence

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MLNRTGDPGP GPSIQKTYDL TRYLEHQLRS LAGTYLNYLG
PPFNEPDFNP PRLGAETLPR ATVDFEVWRS LNDKLRITQN
YEAYSHLLCY LRGLNRQAAT AELRRSLAHF CTSLQGLLGS
IAGVMAALGY PLPQPLPGTE PTWTPGPAHS DFLQKMDDFW
LLKELQTWLW RSAKDFNRLK KKMQPPAAAV TLHLGAHGF
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Database References

Protein RefSeq:	NP_037378.1
Uniprot ID:	Q9UBD9
mRNA RefSeq:	NM_013246

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	199
MW:	22.4 kDa

Stability: The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 3 months at -20°C to -80°C.

Reconstitution: Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. *Do not vortex.* This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.



AVOID REPEATED FREEZE AND THAW CYCLES!

Biological Activity: NT-1/BCSF-3 weakly supports chick E8 DRG neurite outgrowth at a concentration of 1.0 ng/ml.