

32-6499: NNT1 Human

Application :	Functional Assay
Alternative Name :	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.

Description

Source: Escherichia Coli.

Sterile Filtered White lyophilized (freeze-dried) powder.

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. 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.

Product Info

Amount :	2 µg / 10 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	NNT-1 protein was lyophilized from a 0.2µm filtered solution in Acetonitrile and TFA. 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.
Storage condition :	Lyophilized Neurotrophin-1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution NNT1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Amino Acid :	MLNRTGDPGP GPSIQKTYDL TRYLEHQLRS LAGTYLNYLG PPFNEPDFNP PRLGAETLPR ATVDLEVVWRS LNDKLRLLTQN YEAYSHLLCY LRGLNRQAAT AELRRSLAHF CTSLQGLLGS IAGVMAALGY PLPQPLPGTE PTWTPGPAHS DFLQKMDDFW LLKELQTWLW RSKDFNRLK KKMQPAAAV TLHLGAHGF.

Application Note

The ED50, as measured in a cell proliferation assay using human TF 1 cells transfected with human CNTF R , is less than 15ng/ml.