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NNT1 Human

Neurotrophin-1 Human Recombinant
NTR0049

Product Overview

Name	NNT1 Human
Description	
Neurotrophin-1 Human Recombinant	
Accession (Primary)	Q9UBD9
Synonyms	
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.	
Introduction	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
NNT-1 protein was lyophilized from a 0.2 µm filtered solution in Acetonitrile and TFA.	
Stability	
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.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	
MLNRTGDPGP GPSIQKTYDL TRYLEHQLRS LAGTYLNYLG PPFNEPDFNP PRLGAETLPR ATVDLEVWRS	

LNDKLRLTQN YEAYSHLLCY LRGLNRQAAT AELRRSLAHF CTSLQGLLGS IAGVMAALGY PLPQPLPGTE PTWTPGPAHS DFLQKMDDFW LLKELQTWLW RSAKDFNRLK KKMQPPAAAV TLHLGAHGF.

Biological Activity

The ED 50 , as measured in a cell proliferation assay using human TF?1 cells transfected with human CNTF R?, is less than 15ng/ml.

Solubility

It is recommended to reconstitute the lyophilized NNT1 in sterile 18M-cm H 2 O not less than 0.5mg/ml, which can then be further diluted to other aqueous solutions.

Precautions

NNT1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9UBD9)