NNT-1/BCSF-3 Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: Novel Neurtrophin-1/B-Cell Stimulating Factor-3, Cardiotrophin-like cytokine

Cat. No.:

RBG10248002	(2 µg)
RBG10248010	(10 µg)
RBG10248100	(100 µg)

Description

NNT-1/BCSF-3 is a neurotrophic factor with B-cell-stimulating capabilities. Expressed in the lymph nodes and spleen, NNT-1/BCSF-3 activates glycoprotein 130 (gp130) and leukemia inhibitory factor receptor member b (LIFR-b) by binding and inducing the 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 increases in serum IgG and IgM. Recombinant Human NNT-1/BCSF-3 is a 22.4 kDa protein containing 199 amino acid residues.

Research topic

Diabetology - Other Relevant Products, Immune Response, Infection and Inflammation, Neural tissue markers

Amino Acid Sequence

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MLNRTGDPGP GPSIQKTYDL TRYLEHQLRS LAGTYLNYLG PPFNEPDFNP PRLGAETLPR ATVDLEVWRS LNDKLRLTQN
YEAYSHLLCY LRGLNRQAAT AELRRSLAHF CTSLQGLLGS IAGVMAALGY PLPQPLPGTE PTWTPGPAHS DFLQKMDDFW
LLKELQTWLW RSAKDFNRLK KKMQPPAAAV TLHLGAHGF
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Source

E. coli

Purity

98%

Biological Activity

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

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. 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.

Storage, Stability/Shelf Life

-20°C

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