

TECHNICAL DATA SHEET

Recombinant Human NNT-1 (BCSF-3) (Carrier-free)

Catalog Number: 21-7074

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human NNT-1 (BCSF-3) (Carrier-free)

DESCRIPTION

Novel neurotrophin-1 (NNT-1), also known as B cell stimulating factor-3 (BSF-3), is a neurotrophic factor with B-cell stimulating capabilities and belongs to the IL-6 family of cytokines. It is expressed in lymph node and spleen. NNT-1 is a gp130 activator and when associated with the soluble receptor cytokine-like factor-1 (CLF-1) it activates gp130, LIF receptor (LIFR) and STAT3.

MOLECULAR MASS

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

AMINO ACID SEQUENCE

MLNRTGDPGP GPSIQKTYDL TRYLEHQLRS LAGTYLNYLG PPFNEPDFNP PRLGAETLPR ATVDLEVWRS LNDKLRILTQN
YEAYSHLLCY LRGLNRQAAT AELRRSLAHF CTSLQGLLGS IAGVMAALGY PLPQPLPGTE PTWTPGPAHS DFLQKMDDFW
LLKELQTWLW RSAKDFNRLK KKMQPAAAV TLHLGAHGF

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE

ENDOTOXIN LEVEL

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

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

Chicken

BIOACTIVITY

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

RESEARCH AREAS

Diabetes / Weight Regulation; Immune System; Neurobiology

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Senaldi G, Varnum BC, Sarmiento U, Starnes C, Lile J, Scully S, Guo J, Elliott G, McNinch J, Shaklee CL, Freeman D, Manu F, Simonet WE, Boone T and Chang MS. 1999. Proc Natl Acad Sci USA. 96(20): 11458-11463. Lelievre E, Plun-Favreau H, Chevalier S, Froger J, Guillet C, Elson GC, Gauchat JF and Gascan H. 2001. J Biol Chem. 276(25): 22476-22478. Senaldi G, Stolina M, Guo J, Faggioni R, McCabe S, Kaufman SA, Van G, Xu W, Fletcher FA, Boone T, Chang MS, Sarmiento U and Cattley RC. 2002. J Immunol. 168(11): 5690-5698. Vlotides G, Zitzmann K, Stalla GK and Auernhammer CJ. 2004. Cytokine Growth Factor Rev. 15(5): 325-336.

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