

beta-NGF Murine E. coli

Product Data Sheet

Type: Recombinant	Cat. No.:	
Source: E. coli	RBG20106005	(5 µg)
Species: Murine	RBG20106020	(20 µg)
Other names: NGF-beta	RBG20106100	(100 µg)

Description

beta-NGF is a neurotrophic factor structurally related to BDNF, NT-3 and NT-4. These proteins belong to the cysteine-knot family of growth factors that assume stable dimeric structures. beta-NGF is a potent neurotrophic factor that signals through its receptor beta-NGFR, and plays a crucial role in the development and preservation of the sensory and sympathetic nervous systems. beta-NGF also acts as a growth and differentiation factor for B lymphocytes, and enhances B-cell survival. The functional form of Recombinant Murine beta-NGF is a non-covalently-linked homodimer of two 13.4 kDa, polypeptide monomers that each contain 120 amino acids and three disulfide bonds, which are required for biological activity.

Research topic

Cardiovascular disease, Chemokines, Coronary artery disease, Cytokines and chemokines and related molecules, Diabetology - Other Relevant Products, Neural tissue markers

Amino Acid Sequence

SSTHPVPHMG EFSVCDVSVV WVGDKTTATD IKGKEVTVLA EVNINNSVFR QYFFETKCRA SNPVESGCRG IDSKHWNSYC
TTTHTFVKAL TTDEKQAAWR FIRIDTACVC VLSRKATRRG

Source

E. coli

Purity

98%

Biological Activity

The ED₅₀ as determined by the dose-dependent stimulation of the proliferation of human TF-1 cells is ? 1.0 ng/ml, corresponding to a specific activity of ? 1×10⁶ units/mg.

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

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