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Recombinant Murine β-NGF

Catalog # PBG10427

Specification

Recombinant Murine β-NGF - Product Information

Recombinant Murine β-NGF - Additional Information

Description
β-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. β-NGF is a potent neurotrophic factor that signals through its receptor β-NGFR, and plays a crucial role in the development and preservation of the sensory and sympathetic nervous systems. β-NGF also acts as a growth and differentiation factor for B lymphocytes and enhances B-cell survival. The functional form of murine β-NGF is a noncovalently disulfide-linked homodimer, of two 13.4 kDa polypeptide monomers (240 total amino acid residues). The three disulfide bonds are required for biological activity.

BiologicalActivity
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 x 10⁶ units/mg.

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

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

Protein Content
Verified by UV Spectroscopy and/or SDS-PAGE gel.

Storage
-20°C

Precautions
Recombinant Murine β-NGF is for research use only and not for use in diagnostic or therapeutic procedures.

Recombinant Murine β-NGF - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence

- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Recombinant Murine β-NGF - Images