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Recombinant Human β-NGF
Catalog # PBG10426

Specification

Recombinant Human β-NGF - Product Information

Recombinant Human 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 human β-NGF is a noncovalently disulfide-linked homodimer, of two 13.5 kDa polypeptide monomers (240 total amino acid residues). The three disulfide bonds are required for biological activity.

BiologicalActivity
determined by its ability to stimulate chick E9 DRG neurite outgrowth. The ED₅₀ 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 Human β-NGF is for research use only and not for use in diagnostic or therapeutic procedures.

Recombinant Human 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 Human β-NGF - Images