

Animal-Free Recombinant Human β -NGF
Catalog # PBG10561**Specification**

Animal-Free Recombinant Human β -NGF - Product Information**Animal-Free 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.

Biological Activity

determined by its ability to stimulate chick E9 DRG neurite outgrowth. The ED_{50} is ≤ 1.0 ng/ml, corresponding to a specific activity of $\geq 1 \times 10^6$ units/mg.

Authenticity

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

Endotoxin

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

Protein Content

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

Storage

-20°C

Precautions

Animal-Free Recombinant Human β -NGF is for research use only and not for use in diagnostic or therapeutic procedures.

Animal-Free 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 Cytometry](#)
- [Cell Culture](#)

Animal-Free Recombinant Human β -NGF - Images