

**Recombinant Murine  $\beta$ -NGF**  
**Catalog # PBG10427****Specification**

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**Recombinant Murine  $\beta$ -NGF - Product Information****Recombinant Murine  $\beta$ -NGF - Additional Information****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 murine  $\beta$ -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.

**Biological Activity**

The  $ED_{50}$  as determined by the dose-dependent stimulation of the proliferation of human TF-1 cells is  $\leq 1.0$  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/  $\mu$ g of protein ( $<1$ EU/  $\mu$ g).

**Protein Content**

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

**Storage**

-20°C

**Precautions**

Recombinant Murine  $\beta$ -NGF is for research use only and not for use in diagnostic or therapeutic procedures.

**Recombinant Murine  $\beta$ -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](#)

## **Recombinant Murine $\beta$ -NGF - Images**