



## *Animal-Free Recombinant Human $\beta$ -NGF*

### **Product Details**

**Catalogue Number:** PEP-AF-450-01

#### **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 Human  $\beta$ -NGF is a non-covalently-linked homodimer of two 13.5 kDa, polypeptide monomers that each contain 120 amino acids and three disulfide bonds, which are required for biological activity.

**Manufactured using all Animal-Free reagents.**

**Source:** *E.coli*

**Synonyms:** NGF- $\beta$ , beta-Nerve Growth Factor

**AA Sequence (monomer):** SSSHPIFHRG EFSVCDVSVV WVGDKTTATD IKGKEVMVLG EVNINNSVFK QYFFETKCRD PNPVDSGCRG IDSKHWNSYC TTTHTFVKAL TMDGKQAAGR FIRIDTACVC VLSRKAVR

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**Purity:**  $\geq 98\%$  by SDS-PAGE gel and HPLC analyses.

**Biological Activity:** Determined by the dose-dependent stimulation of the proliferation of human TF-1 cells. The expected **ED<sub>50</sub>** is  $\leq 1.0$  ng/ml, corresponding to a specific activity of  $\geq 1 \times 10^6$  units/mg.

**Cross Reactivity:**

Chicken, Hamster, Human, Mouse, Rat

**Country Of Origin:** USA

Not for human use.

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