

## 32-20403: Animal-Free Recombinant Human Beta -NGF(Discontinued)

**Reactivity :** Chicken, Human, Mouse, Rat  
**Alternative Name :** NGF-Beta , beta-Nerve Growth Factor

### Description

**Source:** **E.coli** 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.

### Product Info

**Amount :** 20 µg / 100 µg  
**Purification :** Purity: >= 98% by SDS-PAGE gel and HPLC analyses.  
**Content :** This recombinant protein is supplied in lyophilized form.  
**Amino Acid :** SSSHPIFHRG EFSVCDSVSV WVGDKTTATD IKGKEVMVLG EVNINNSVFK QYFFETKCRD PNPVDSGCRG  
IDSKHWNSYC TTTHTFVKAL TMDGKQAAGR FIRIDTACVC VLSRKAVER

### Application Note

Determined by the dose-dependent stimulation of the proliferation of human TF-1 cells. The expected  $ED_{50}$  is  $\leq 1.0$  ng/ml, corresponding to a specific activity of  $\geq 1 \times 10^6$  units/mg.