

## 32-12016: Human Beta-Nerve Growth Factor (AF)

**Gene :** NGF  
**Gene ID :** 4803  
**Uniprot ID :** P01138  
**Alternative Name :** NGFB

### Description

**Source:** Genetically modified E.coli.

**Predicted MW:** Dimer, 13.6/27.3 kDa (121/242 aa)

Nerve growth factor beta (beta-NGF) is a neurotrophic factor that is important for the development and maintenance of sensory and sympathetic neurons. beta-NGF signals through the low affinity nerve growth factor receptor (LNGFR) and the tropomyosin receptor kinase A (TrkA) to activate PI3K, Ras, and PLC signaling pathways. beta-NGF is also involved in the growth, differentiation, and survival of B lymphocytes. Human, mouse, and rat beta-NGF proteins are cross-reactive.

### Product Info

**Amount :** 20 µg / 100 µg  
**Purification :** Reducing and Non-Reducing SDS PAGE at  $\geq 95\%$   
**Content :** Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)  
Sterile water at 0.1 mg/mL  
**Storage condition :** Store at  $-20^{\circ}\text{C}$   
**Amino Acid :** MSSSHPIFHR GEFSVCDSVS VVVGDKTTAT DIKGKEVMVL GEVNINNSVF KQYFFETKCR DPNPVDSGCR GIDSKHWNSY CTTHTTFVKA LTMDGKQAAW RFIRIDTACV CVLSRKAVRR A

### Application Note

**Endotoxin:** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.

Biological Activity was determined by TF-1 cell proliferation at  $\leq 5$  ng/mL;  $\geq 2.0 \times 10^5$  units/mg (typical ED50 is  $< 1$  ng/mL). Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at  $-80^{\circ}\text{C}$  and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vial to compensate for this loss.



