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# 32-18042: Recombinant Human Beta-NGF (Mammalian) Protein

**Uniprot ID :** P01138
**Alternative Name :** Beta-Nerve Growth Factor; Beta-NGF; NGF; NGFB;?-NGF

## Description

Molecular weight: 13.3 KDa
Description: Recombinant Human Beta-Nerve Growth Factor is produced by our Mammalian expression system and the target gene encoding Ser122-Arg239 is expressed.
Human Î²-Nerve Growth Factor (Î²-NGF) was initially isolated in the mouse submandibular gland. It is composed of three non-covalently linked subunits a, Î², and Î³; it exhibits all the biological activities ascribed to NGF. It is structurally related to BDNF, NT-3 and NT-4 and belongs to the cysteine-knot family of growth factors that assume stable dimeric structures. Î'-NGF is a neurotrophic factor that signals through its receptor Î²-NGF, and plays a crucial role in the development and preservation of the sensory and sympathetic nervous systems. Î'-NGF also acts as a growth and differentiation factor for B lymphocytes and enhances B-cell survival. These results suggest that Î²-NGF is a pleiotropic cytokine, which in addition to its neurotropic activities may have an important role in the regulation of the immune system. Human Î²-NGF shares 90% sequence similarity with mouse protein and shows cross-species reactivity.

## Product Info

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| **Amount :** | 50 µg |
| **Content :** | Lyophilized from a 0.2 ?m filtered solution of 20mM PB, 250mM NaCl, pH 7.0. |
| **Storage condition :** | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature. |