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# 32-7050: Recombinant Human beta-Nerve Growth Factor/ beta-NGF (Ser122-Ala241, E. coli)

**Gene :** NGF
**Gene ID :** 4803
**Uniprot ID :** P01138

## Description

Source: E.coli.
MW :13.4kD.
Recombinant Human beta-Nerve Growth Factor is produced by our E.coli expression system and the target gene encoding Ser122-Ala241 is expressed. Human beta-Nerve Growth Factor ( beta-NGF) was initially isolated in the mouse submandibular gland. It is composed of three non-covalently linked subunits a, beta, and gamma; 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. B-NGF is a neurotrophic factor that signals through its receptor beta-NGF, and plays a crucial role in the development and preservation of the sensory and sympathetic nervous systems. B-NGF also acts as a growth and differentiation factor for B lymphocytes and enhances B-cell survival. These results suggest that beta-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 beta-NGF shares 90% sequence similarity with mouse protein and shows cross-species reactivity.

## Product Info

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| **Amount :** | 10 µg / 50 µg |
| **Content :** | Lyophilized from a 0.2 µm filtered solution of 20mM PB, 250mM NaCl, pH 7.0. |
| **Storage condition :** | Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months. |
| **Amino Acid :** | SSSHPIFHRGEFSVCDSVSVWVGDKTTATDIKGKEVMVLGEVNINNSVFKQYFFETKCRDPNPVDSGCRGIDSK HWNSYCTTTHTFVKALTMDGKQAAWRFIRIDTACVCVLSRKAVRRA |

## Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 ÃÂµg/ml. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
**Endotoxin :** Less than 0.1 ng/ÃÂµg (1 IEU/ÃÂµg) as determined by LAL test.
**Biological Activity :** ED50 is less than 1.0 ng/ml. Specific Activity is greater than 1 x 10^6 IU/mg.