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

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**

**Amount:** 10 μg / 50 μg

Content: Lyophilized from a 0.2 µm filtered solution of 20mM PB, 250mM NaCl, pH 7.0.

Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks.

**Storage condition :** 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  $\tilde{A} \square \hat{A} \mu g/ml$ . Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin**: Less than 0.1 ng/ $\tilde{A} \square \hat{A} \mu g$  (1 IEU/ $\tilde{A} \square \hat{A} \mu g$ ) as determined by LAL test.

Biological Activity: ED50 is less than 1.0 ng/ml. Specific Activity is greater than 1 x 10<sup>6</sup> IU/mg.