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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

Amount: $10 \mu g / 50 \mu g$

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: SSSHPIFHRGEFSVCDSVSVWVGDKTTATDIKGKEVMVLGEVNINNSVFKQYFFETKCRDPNPVDS

GCRGIDSKHWNSYCTTTHTFVKALTMDGKQAAWRFIRIDTACVCVLSRKAVRRA

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

Endotoxin: Less than 0.1 ng/Âμg (1 IEU/Âμg) 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.