9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

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 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.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.