

32-1092: b NGF Recombinant Protein

Alternative Name : Beta Polypeptide,NGF,NGFB,HSAN5,Beta-NGF,MGC161426,MGC161428.

Description

Source : Escherichia Coli. Nerve Growth Factor-beta Human Recombinant produced in E.Coli is a non-covalently disulfide-linked homodimer, non-glycosylated, polypeptide chain containing 2 identical 121 amino acids with a molecular weight of two 13.6 kDa polypeptide monomers. The NGF-b is purified by proprietary chromatographic techniques. NGF-beta has nerve growth stimulating activity and the complex is involved in the regulation of growth and the differentiation of sympathetic and certain sensory neurons. Mutations in this gene have been associated with hereditary sensory and autonomic neuropathy, type 5 (HSAN5), and dysregulation of this gene's expression is associated with allergic rhinitis.

Product Info

Amount :	20 µg
Purification :	Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	The beta-NGF protein was lyophilized from a 0.2µm filtered solution containing no additives or preservatives.
Storage condition :	Lyophilized Beta-NGF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution NGF-Beta should be stored at 4°C between 2-7 days and for future use below -18°C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.
Amino Acid :	MSSSHPIFHRG EFSVCDSVSV WVGDKTTATD IKGKEVMVLG EVNINNSVFK QYFFETKCRD PNPVDSGCRG IDSKHWNSYC TTTHTFVKAL TMDGKQAAWR FIRIDTACVC VLSRKAVRRA.

Application Note

It is recommended to reconstitute the lyophilized NGF-b in sterile 18M Ω -cm H₂O not less than 100Åµg/ml, which can then be further diluted to other aqueous solutions. The ED₅₀, calculated by its ability to stimulate proliferation of TF-1 cells and is typically < 1.0 ng/ml, corresponding to a specific activity of > 1,000,000units/mg.

