

## 32-1093: b NGF CHO Recombinant Protein

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

### Description

Source : Chinese Hamster Ovary Cells. Nerve Growth Factor-beta Human Recombinant produced in CHO is a noncovalently disulfide linked homodimer, glycosylated, polypeptide chain containing 2 identical 118 amino acids and having a molecular mass of 26.5 kDa. 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

<b>Amount :</b>	20 µg
<b>Purification :</b>	Greater than 98.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
<b>Content :</b>	The protein was lyophilized from a 0.2µm filtered solution in 20mM Tris-HCl pH-8 & 0.15M NaCl.
<b>Storage condition :</b>	Lyophilized Nerve Growth Factor b although stable at room temperature for 3 weeks, should be stored desiccated below -18C. Upon reconstitution Nerve Growth Factor-beta should be stored at 4C between 2-7 days and for future use below -18C. For long-term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.
<b>Amino Acid :</b>	Was analyzed by Mass spectrometry.

### Application Note

It is recommended to reconstitute the lyophilized NGF-b in sterile 18MΩ-cm H<sub>2</sub>O not less than 100Åµg/ml, which can then be further diluted to other aqueous solutions. The ED<sub>50</sub>, calculated by its ability to stimulate chick E9 DRG neurite outgrowth was found to be < 1.0 ng/ml, corresponding to a specific activity of > 1 x 10<sup>6</sup> units/mg.

