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## Product Data Sheet

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Product Name: b NGF Human  
 Cat. No.: GP20115  
 Batch No.: 1

### Product Data

Purity	Greater than 95.0% as determined by SDS-PAGE.	Source	Escherichia Coli.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.	Shipping Condition	2-8°C
Synonyms	Beta Polypeptide; NGF; NGFB; HSAN5; Beta-NGF; MGC161426; MGC161428.		
Amino Acid Sequence	MSSSHPIFHRG EFSVCDSVSV WVGDKTTATD IKGKEVMVLG EVNINNSVFK QYFFETKCRD PNPVDSGCRG IDSKHWNSYC TTTHTFVKAL TMDGKQAAWR FIRIDTACVC VLSRKAVRRA.		
Solubility	It is recommended to reconstitute the lyophilized NGF-b in sterile 18MΩ-cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The beta-NGF protein was lyophilized from a 0.2µm filtered solution containing 0.1% Trifluoroacetic Acid (TFA).		

### Introduction

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.

### Biological Activity

The ED<sub>50</sub>, 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.

### Stability

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Lyophilized Beta-NGF although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution NGF-Beta should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

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.

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