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## Product Data Sheet

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Product Name: Beta NGF Mouse  
 Cat. No.: GP20117  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Beta Polypeptide; NGF; NGFB; HSAN5; Beta-NGF; MGC161426; MGC161428.		
Amino Acid Sequence	MSSTHPVFHM GEFSVCDSVS VVVGDKTTAT DIKGKEVTVL AEVNINNSVF RQYFFETKCR ASNPVESGCR GIDSKHWNSY CTTTHTFVKA LTTDEKQAAW RFIRIDTACV CVLSRKATRR G.		
Solubility	It is recommended to reconstitute the lyophilized Murine NGF-beta 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 Recombinant Mouse b-NGF was lyophilized without additives.		

### 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. Nerve Growth Factor was the 1st protein found from the family of neurotrophic factors that influence the growth and differentiation of sympathetic and sensory neurons. NGF consists of 3 different subunits: alpha, beta, and gamma. The beta subunit is accountable for its growth stimulating activity. The synthesis of NGF in astrocytes is enhanced by a range of cytokines such as IL1, TNF-a, PDGF & TGF-b.

### Biological Activity

The Mouse b-NGF activity was measured in a cell proliferation assay using a factor-dependent human erythroleukemic cell line, TF-1, the ED50 for this effect is 0.2 ng/ml, corresponding to a Specific Activity of 5,000,000 units/mg.

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

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### Stability

Lyophilized Mouse Beta-NGF although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution Murine NGF-Beta should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . Please prevent freeze-thaw cycles.

### Background

Recombinant Mouse b-NGF produced in E.Coli is a noncovalently disulfide-linked homodimer, non-glycosylated, polypeptide chain containing 2 identical chains of 120 amino acids each and having a molecular mass of 13,471 Dalton each. The Recombinant Mouse-beta-NGF is purified by advanced biology purification technology.

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