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## Product Data Sheet

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Product Name: b NGF Mouse  
 Cat. No.: GP20118  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Submaxillary Gland of Grown Mouse.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Beta Polypeptide; NGF; NGFB; HSAN5; Beta-NGF; MGC161426; MGC161428.		
Amino Acid Sequence	SSTHPVFHMGEF SVCDSVSVWV GDKTTATDIK GKEVTVLAEV NINNSVFRQY FFETKCRASN PVESGCRGID SKHWNSYCTT THTFVKALTT DEKQAAWRFI RIDTACVCVL SRKATRRG.		
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 NGF beta Mouse was lyophilized from solution containing 5% mannitol and 1% HSA.		

### 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 method used to test the bioassay is the NGF-dependent survival of dorsal root ganglia neurons of chick embryo, corresponding to a Specific Activity of 500,000IU/mg.

### Stability

Lyophilized Mouse Beta-NGF although stable at room temperature for 3 weeks, should

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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

NGF beta Mouse produced in Submaxillary Gland of Grown Mouse is a homodimer, non-glycosylated, polypeptide chain containing 2 identical 120 amino acids and having a molecular mass of 13,471 Dalton each.The NGF beta Mouse is purified by advanced biology purification technology.

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