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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Nerve Growth Factor beta, mouse recombinant (rmbeta-NGF)

**Catalog No:** 99854  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Beta Polypeptide, NGF, NGFB, HSAN5, Beta-NGF, MGC161426, MGC161428

### Background

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.

### Description

Nerve Growth Factor-beta mouse recombinant 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.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

Recombinant mouse b-NGF was lyophilized without additives.

### Solubility

It is recommended to reconstitute the lyophilized NGF-b in sterile 18 MΩ-cm H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

### Stability

Lyophilized mouse Beta-NGF, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Murine NGF-Beta should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

### Purity

Greater than 98% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE .

### Amino Acid Sequence

MSSTHPVFHM GEFVCDVS VWVGDKTTAT DIKGKEVTVL AENVINNSVF RQYFFETKCR ASNPVESGCR GIDSKHWNSY  
CTTTHTFVKA LTTDEKQAAW RFIRIDTACV CVLSRKATRR G

### 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.



**Usage**

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