

## Mouse Nerve Growth Factor beta (m NGF-b)

**Synonyms:** Beta Polypeptide, HSAN5, Beta-NGF.

**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.

**Description:** mouse NGF-beta 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 mouse NGF-beta is purified by advanced biology purification technology.

**Source:** *Submaxillary Gland of Grown Mouse.*

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder

**Formulation:** The mouse NGF beta lyophilized from solution containing 5% Mannitol and 1% HSA

**Solubility:** It is recommended to reconstitute the lyophilized mouse NGF-beta in sterile H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:** Lyophilized mouse NGF-beta although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution mouse 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 and by (b) Analysis by SDS-PAGE.

**Amino acid sequence:** SSTHPVFHMGEG SVCDSSVSVWV GDKTTATDIK GKEVTVLAEV NINNSVFRQY FFETKCRASN PVESGCRGID SKHWNSYCTT THTFVKALTT DEKQAAWRFI RIDTACVCVL SRKATRRG.

**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 5 x 10<sup>5</sup> IU/mg.

**Reference:** Varon S, Raibo m C. Dissociation, fractionation and culture of chick embryo sympathetic ganglionic cells [ J ]. J Neurocytol, 1972; 1: 211- 221

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<i>small</i>	5 µg	Cat.N°	12343350
<i>medium</i>	20 µg	Cat.N°	12343354
<i>large</i>	100 µg	Cat.N°	12343356

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