Nerve Growth Factor beta, mouse (mbeta-NGF)

Catalog No: 87418
Lot No: XXXXX
Source: Submaxillary Gland of Grown Mouse
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.

Description

Nerve Growth Factor-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. NGF beta mouse is purified by advanced biology purification technology.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

NGF beta mouse was lyophilized from solution containing 5% mannitol and 1% HSA.

Solubility

It is recommended to reconstitute the lyophilized NGF-b in sterile 18 MΩ-cm H_2O 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

SSTHPVFHMG EFSVCDSVSV WVGDKTTATD IKGKEVTVLA EVNINNSVFR QYFFETKCRA SNPVESGCRG IDSKHWNSYC TTTHTFVKAL TTDEKQAAWR FIRIDTACVC VLSRKATRRG

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 500,000 IU/mg.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.