



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet Mouse beta Nerve Growth Factor

Catalog No.
228-10113

Source
Submaxillary Gland of Grown Mouse.

Synonyms

Beta Polypeptide, NGF, NGFB, HSAN5, Beta-NGF, MGC161426, MGC161428.

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

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.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

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

Purity

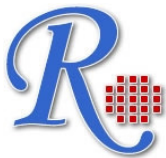
Greater than 98% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE .

Amino Acid Sequence

SSTHPVFHMGEEF SVCDSSVSVWV GDKTTATDIK GKEVTVLAEV NINNSVFRQY
FFETKCRASN PVESGCRGID SKHWSYCTT THTFVKALTT DEKQAAWRFI
RIDTACVCVL SRKATRRG

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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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 5×10^5 IU/mg.

Solubility

It is recommended to reconstitute the lyophilized Murine NGF-beta in sterile 18M Ω -cm H₂O not less than 100 μ g/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.

Reference

V aron S, Raibo rn C. Dissociation, fractionation and culture of chick embryo sympathetic ganglionic cells [J]. J N eu rocy tol, 1972; 1: 211- 221

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