
Product Data Sheet

Product Name: b NGF Human, CHO

Cat. No.: GP20116

Batch No.: 1

Product Data

Purity >98% Source Chinese Hamster Ovary Cells.

Physical Appearance solid Shipping Condition Shipped at Room temp.

Synonyms Beta Polypeptide; NGF; NGFB; HSAN5; Beta-NGF; MGC161426; MGC161428.

Amino Acid Sequence Was analyzed by Mass spectrometry.

Solubility It is recommended to reconstitute the lyophilized NGF-b in sterile 18MΩ-cm H₂O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

Formulation The protein was lyophilized from a 0.2μm filtered solution in 20mM PB and 250mM NaCl, pH 7.0.

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 ED₅₀, calculated by its ability to stimulate chick E9 DRG neurite outgrowth was found to be < 1.0 ng/ml, corresponding to a specific activity of > 1 x 10⁶ units/mg.

Stability

Lyophilized Nerve Growth Factor b although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution Nerve Growth Factor-beta should be stored at 4°C between 2-7 days and for future use below -18°C . For long-term

Caution: Product has not been fully validated for medical applications. For research use only.

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storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

Nerve Growth Factor-beta Human Recombinant produced in CHO is a noncovalently disulfide linked homodimer, glycosylated, polypeptide chain (Ser122-Arg239) containing 2 identical 118 amino acids and having a molecular mass of 26.5 kDa. The NGF-b is purified by proprietary chromatographic techniques.

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