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b NGF Human, CHO

Catalog #:CYPS-253

For research use only.

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

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

Source: Chinese Hamster Ovary Cells.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence: Was analyzed by Mass spectrometry.

Purity: Greater than 98.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Formulation:
The protein was lyophilized from a 0.2

Stability:
Lyophilized Nerve Growth Factor b althoμgh stable at room temperature for 3 weeks, should be stored desiccated below -18C. Upon reconstitution Nerve Growth Factor-beta should be stored at 4C between 2-7 days and for future use below -18C. For long-term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

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

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.

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