



Product Datasheet

Product Name	Recombinant Human Beta-Nerve Growth Factor
Cata No	CB500148
Source	Chinese Hamster Ovary Cells

Description

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.

Nerve Growth Factor-beta Human Recombinant produced in CHO is a homodimer, glycosylated, polypeptide chain containing 2 identical 119 amino acids and having a molecular mass of 16,950 Dalton. The NGF-b is purified by proprietary chromatographic techniques.

Purity

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

Storage

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 storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent freeze-thaw cycles.

Formulation

The protein was lyophilized from a 0.2µm filtered solution in 30mM sodium acetate pH=5.5 containing 1% HAS.

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.

*** For Non-Clinical Research Use Only ***