



Product Datasheet

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| Product Name | Recombinant Mouse Nerve Growth Factor |
| Cata No | CB500342 |
| Source | <i>Submaxillary Gland of Grown Mouse</i> |
| Synonyms | Beta Polypeptide, NGF, NGFB, HSAN5, Beta-NGF, MGC161426, MGC161428. |

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.

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.

Purity

Greater than 98.0% as determined by:

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

Specific 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.

Storage

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.

Formulation

The NGF beta Mouse was lyophilized from solution containing 5% mannitol and 1% HSA. It is recommended to reconstitute the lyophilized Murine NGF-beta in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

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