

Mouse Nerve Growth Factor, Lyophilized

Cat. No. Ngf-10M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse nerve growth factor beta produced in <i>Submaxillary gland of grown mouse</i> 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 is purified by advanced biology purification technology.
Species	Mouse
Source	Submaxillary gland
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.
Physical Appearance	Sterile Filtered colorless solution at a concentration of 0.61 mg/ml.
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Ser-Ser-Thr-His-Pro.
Purity	Greater than 99.6% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE .
Formulation	The NGF beta 0.2µm filtered solution contains 50mM PBS and 150mM NaCl.

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Biological Activity

Activity was Measured in a cell proliferation assay using a factor-dependent human erythroleukemic cell line, TF-1, the ED₅₀ for this effect is typically 0.3 - 1 ng/ml corresponding to a Specific Activity of 1 x 10⁶IU/mg.

GENE INFORMATION

Gene Name Ngf nerve growth factor [Mus musculus]

Synonyms Ngf; nerve growth factor; Ngfb

Gene ID 18049

mRNA Refseq NM_001112698

Protein Refseq NP_001106168

UniProt ID P01139

Chromosome Location 3 48.5 cM

Pathway Apoptosis; MAPK signaling pathway; Neurotrophin signaling pathway

Function growth factor activity; receptor binding; receptor signaling protein activity

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