

## Mouse Nerve Growth Factor, Lyophilized

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

### SPECIFICATION

<b>Product Overview</b>	Mouse nerve growthfactor 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.
<b>Species</b>	Mouse
<b>Source</b>	Submaxillary gland
<b>Description</b>	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.
<b>Physical Appearance</b>	Sterile Filtered colorless solution at a concentration of 0.61 mg/ml.
<b>Amino Acid Sequence</b>	The sequence of the first five N-terminal amino acids was determined and was found to be Ser-Ser-Thr-His-Pro.
<b>Purity</b>	Greater than 99.6% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE .
<b>Formulation</b>	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 ED<sub>50</sub> for this effect is typically 0.3 - 1 ng/ml corresponding to a Specific Activity of 1 x 10<sup>6</sup>IU/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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