

## Active Native Mouse Nerve Growth Factor

**Cat. No.** Ngf-298M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Mouse NGF (2.5S) was isolated from mouse submaxillary glands by method of Mobley et al (1976) and is a form of beta-NGF that has identical biological properties.                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | Mouse Submaxillary Gland                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | NGF is known to regulate the survival and development of certain sympathetic and sensory neurons. It is a dimer with 2 identical polypeptide chains and dimeric molecular weight of approximately 26,500 Da. Isolation and purification of NGF from mouse submaxillary glands yields preparations of NGF (2.5S) with identical biological activity but with cleavages at the amino terminus (with the loss of 8 amino acids) and/or at the carboxy-terminus (with the loss of arginine). |
| <b>Form</b>             | Lyophilised from 0.1M acetic acid under dry N2 with vacuum.                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Bio-activity</b>     | Tested by stimulation of 8 day old chick embryo dorsal root ganglia.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Mass</b>   | The homodimer has a molecular weight of ~26KDa and the monomer ~13KDa as confirmed by SDS PAGE.                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Purity</b>           | Greater than 90% (as determined by SDS electrophoresis)                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage</b>          | Store at -20°C. Avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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**Reconstitution** Reconstitute with the addition of 25 µl sterile water or phosphate buffered saline and aliquot.

## GENE INFORMATION

**Gene Name** [Ngf nerve growth factor \[ Mus musculus \]](#)

**Official Symbol** Ngf

**Synonyms** NGF; nerve growth factor; beta-nerve growth factor; beta-NGF; nerve growth factor, beta; Ngfb;

**Gene ID** [18049](#)

**mRNA Refseq** [NM\\_001112698](#)

**Protein Refseq** [NP\\_001106168](#)

**Pathway** ARMS-mediated activation, organism-specific biosystem; Activation of TRKA receptors, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Apoptosis signaling pathway, organism-specific biosystem; Axonal growth stimulation, organism-specific biosystem; Cell death signalling via NRAGE, NRIF and NADE, organism-specific biosystem;

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

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