

## Active Recombinant Mouse Ngf Protein, Tag Free

**Cat. No.** Ngf-11198M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b> | Mouse Beta-NGF Protein, Tag Free is expressed from human 293 cells (HEK293). It contains AA Ser 122-Gly 241 (Accession # P01139). This protein carries no "tag".<br>Predicted N-terminus: Ser 122                                                                                                                                                                                                                                         |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | 122-241 aa                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | Nerve growth factor beta (beta-NGF) is a neurotrophic factor that plays critical role in the development and maintenance of sensory and sympathetic neurons. The active form of human beta-NGF is a noncovalently disulfide-linked homodimer, which is secreted and signals through the low affinity nerve growth factor receptor (LNGFR) and the tropomyosin receptor kinase A (TrkA) to activate PI3K, Ras, and PLC signaling pathways. |
| <b>Form</b>             | Lyophilized from 0.22 µm filtered solution in 20 mM NaAC, 150 mM NaCl, pH5.5 with trehalose as protectant.                                                                                                                                                                                                                                                                                                                                |
| <b>Specificity</b>      | Sterility: Negative Mycoplasma: Negative                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Bio-activity</b>     | Immobilized Mouse Beta-NGF Protein, Tag Free at 1 µg/mL (100 µL/well) can bind Human TrkA (33-417), Fc Tag with a linear range of 0.2-16 ng/mL.                                                                                                                                                                                                                                                                                           |

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|                       |                                                                                                                                                                                                                                                                                                                              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b> | The protein has a calculated MW of 13.5 kDa. The protein migrates as <14 kDa under reducing (R) condition (SDS-PAGE).                                                                                                                                                                                                        |
| <b>Endotoxin</b>      | Less than 0.1 EU/μg by the LAL method/rFC method.                                                                                                                                                                                                                                                                            |
| <b>Purity</b>         | >95% as determined by SDS-PAGE. >90% as determined by SEC-MALS.                                                                                                                                                                                                                                                              |
| <b>Storage</b>        | This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.                                                                                                                                       |

## GENE INFORMATION

|                        |                                                                                                |
|------------------------|------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Ngf nerve growth factor [ Mus musculus (house mouse) ]                                         |
| <b>Official Symbol</b> | Ngf                                                                                            |
| <b>Synonyms</b>        | NGF; nerve growth factor; beta-nerve growth factor; beta-NGF; nerve growth factor, beta; Ngfb; |
| <b>Gene ID</b>         | 18049                                                                                          |
| <b>mRNA Refseq</b>     | NM_001112698                                                                                   |
| <b>Protein Refseq</b>  | NP_001106168                                                                                   |

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**UniProt ID**

P01139

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