

Active Recombinant Mouse Ngf Protein, Tag Free

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

SPECIFICATION

Product Overview	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". Predicted N-terminus: Ser 122
Species	Mouse
Source	HEK293
ProteinLength	122-241 aa
Description	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.
Form	Lyophilized from 0.22 µm filtered solution in 20 mM NaAC, 150 mM NaCl, pH5.5 with trehalose as protectant.
Specificity	Sterility: Negative Mycoplasma: Negative
Bio-activity	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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	The protein has a calculated MW of 13.5 kDa. The protein migrates as <14 kDa under reducing (R) condition (SDS-PAGE).
Endotoxin	Less than 0.1 EU/μg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE. >90% as determined by SEC-MALS.
Storage	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.
Reconstitution	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

Gene Name	Ngf nerve growth factor [Mus musculus (house mouse)]
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

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UniProt ID

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