

## Active Recombinant Mouse Ngf Protein (Ser122-Gly241), C-His tagged, Animal-free, Carrier-free

Cat. No. Ngf-71M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Ngf Protein (Ser122-Gly241) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>ProteinLength</b>	Ser122-Gly241
<b>Description</b>	Beta-Nerve Growth Factors (Beta-NGF) is a 27 kDa cytokine with 241 amino acid residues. Beta-NGF belongs to neurotrophin family, and acts as neurotrophic factors. It's composed of alpha, beta, gamma subunits, and the beta subunit is related to its biological activity. Beta-NGF binds to p75 neurotrophin receptor and Trk receptor and their function is about cell death and survival, respectively.
<b>Form</b>	Lyophilized
<b>Bio-activity</b>	Measure by its ability to induce TF-1 cells proliferation. The ED50 for this effect is < 1 ng/mL. The specific activity of recombinant mouse beta-NGF is > 1 × 10 <sup>6</sup> IU/mg.
<b>Molecular Mass</b>	The protein has a calculated MW of 14.41 kDa. The protein migrates as 11-17 kDa under reducing condition (SDS-PAGE analysis).
<b>Endotoxin</b>	< 0.1 EU/μg of the protein by the LAL method.

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<b>Purity</b>	>98% as determined by SDS-PAGE analysis.
<b>Storage</b>	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered solution containing 20 mM sodium citrate and 0.2 M NaCl, pH 4.5.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

## GENE INFORMATION

<b>Gene Name</b>	Ngf nerve growth factor [ <i>Mus musculus</i> (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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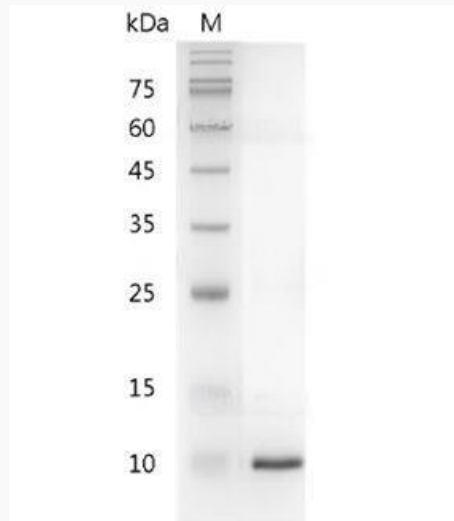
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UniProt ID

P01139

**SDS-PAGE analysis  
of recombinant  
mouse Beta-NGF.**



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