

Active GMP Recombinant Mouse Ngf Protein, His-Tagged

Cat. No. Ngf-01M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GMP Recombinant Mouse Ngf Protein, His-Tagged was expressed in Escherichia coli cell-derived in an animal component free process under cGMP guidelines.
Species	Mouse
Source	E.coli
Description	Enables transmembrane receptor protein tyrosine kinase activator activity. Involved in positive regulation of DNA binding activity; positive regulation of Ras protein signal transduction; and positive regulation of protein phosphorylation. Acts upstream of or within several processes, including cell surface receptor signaling pathway; positive regulation of cell projection organization; and positive regulation of macromolecule metabolic process. Located in neuron projection terminus. Is expressed in several structures, including alimentary system; genitourinary system; limb; nervous system; and sensory organ. Human ortholog(s) of this gene implicated in several diseases, including IgA glomerulonephritis; end stage renal disease; hereditary sensory and autonomic neuropathy type 5; interstitial cystitis; and neurogenic bladder. Orthologous to human NGF (nerve growth factor).
Form	Lyophilized
Bio-activity	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 x 10 ⁶ IU/mg.
AA Sequence	MSSTHPVFHMGFEFSVCDSVSVWVGDKTTATDIKGKEVTVLAEVNINNSVFRQYFFE

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	TKCRASNPVESGCRGIDSKHWNSYCTTTHTFVKALTTDEKQAAWRFIRIDTACVCVL SRKATRRG with polyhistidine tag at the C-terminus
Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE. Ni-NTA chromatography
Notes	Please use within one month after protein reconstitution.
Storage	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
Storage Buffer	The protein was lyophilized from a solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 4.5.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

GENE INFORMATION

Gene Name	Ngf nerve growth factor [Mus musculus (house mouse)]
Official Symbol	Ngf
Synonyms	Ngfb; beta-NGF
Gene ID	18049
mRNA Refseq	NM_001112698.2

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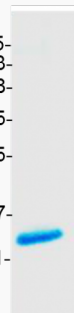
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Protein Refseq NP_001106168.1

UniProt ID P01139

kDa

75-
63-
48-
35-
25-
17-
11-



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