

Recombinant Mouse Ngf Protein, His-tagged

Cat. No. Ngf-1827M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Ngf Protein (Glu85-Gly307) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Glu85-Gly307
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	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 29.8 kDa Accurate Molecular Mass: 33 kDa

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Purity	> 90%
Applications	Cell culture; Activity Assays.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

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

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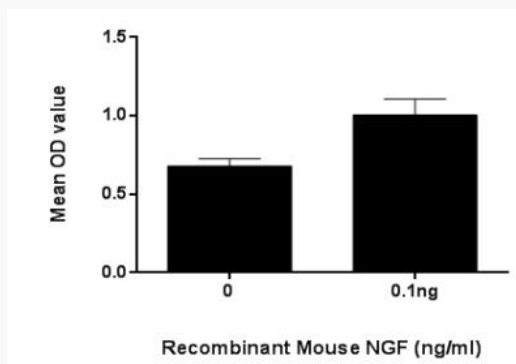
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Protein Refseq NP_001106168

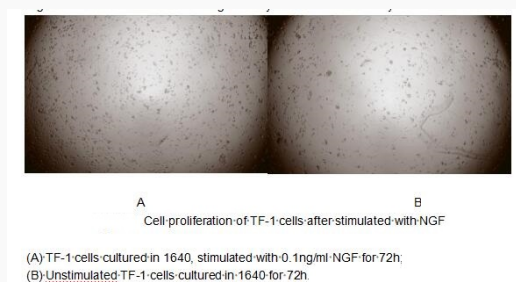
UniProt ID P01139

Bioactivity



Cell proliferation of TF-1 cells after stimulated with NGF.

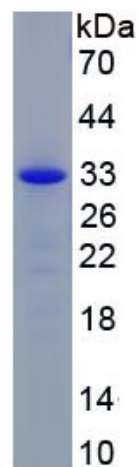
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