

Active Recombinant Mouse Ngf Protein

Cat. No. Ngf-4406M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse nerve growth factor (Ngf), transcript variant A without tag was expressed in E. coli.
Species	Mouse
Source	E.coli
Description	Nerve growth factor is important for the development and maintenance of the sympathetic and sensory nervous systems. Extracellular ligand for the NTRK1 and NGFR receptors, activates cellular signaling cascades to regulate neuronal proliferation, differentiation and survival. The immature NGF precursor (proNGF) functions as ligand for the heterodimeric receptor formed by SORCS2 and NGFR, and activates cellular signaling cascades that lead to inactivation of RAC1 and/or RAC2, reorganization of the actin cytoskeleton and neuronal growth cone collapse. In contrast to mature NGF, the precursor form (proNGF) promotes neuronal apoptosis (in vitro). Inhibits metalloproteinase-dependent proteolysis of platelet glycoprotein VI. Binds lysophosphatidylinositol and lysophosphatidylserine between the two chains of the homodimer. The lipid-bound form promotes histamine release from mast cells, contrary to the lipid-free form.
Bio-activity	ED50 as determined by the dose-dependent stimulation of the proliferation of human TF-1 cells is less than or equal to 1.0 ng/mL, corresponding to a specific activity of $> 1 \times 10^6$ units/mg.

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Molecular Mass	13.4 kDa
AA Sequence	SSTHPVFHMGFEFSVCDSVSVWVGDKTTATDIKGKEVTVLAEVNINNSVFRQYFFETK CRASNPVESGCRGIDSKHWNSYCTTTHTFVKALTTDEKQAAWRFIRIDTACVCVLSR KATRRG
Endotoxin	< 0.1 ng/μg of protein (< 1 EU/μg)
Purity	> 95% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
Storage	Store at -80 centigrade.
Storage Buffer	Lyophilized from a 0.2 μM filtered solution of 20 mM phosphate buffer, 100 mM NaCl, pH 7.2

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_013609

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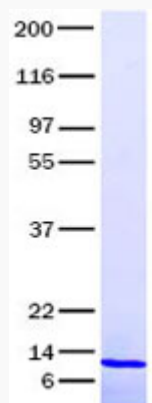
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Protein Refseq NP_038637

UniProt ID P01139

SDS-PAGE



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