

Active Recombinant Mouse Ngf

Cat. No. Ngf-8330M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Ngf was expressed in NSO Cells.
Species	Mouse
Source	Mammalian Cells
Description	Nerve growth factor beta (NGFβ/beta-NGF) is a secreted protein of the neurotrophin family and is important for the differentiation and survival of neurons and dermal keratinocytes. NGFβ is found in the hypothalamus, pituitary, thyroid gland, testes, epididymis, vascular smooth muscle cells, fibroblasts, mast cells and eosinophils. Glutamate, vitamin D3, IL-6, FGF basic, astrocyte specific IL-1, TNF alpha, PDGF and TGF beta up-regulate while GABAergic neuronal activity, glucocorticoids and Schwann cell-specific TGF beta down-regulate NFGβ. Signaling by NFGβ occurs through two receptors: TrKs and NGF receptor. It enhances the growth and differentiation of B lymphocytes and also has a possible role in allergy and tissue repair.
Form	This recombinant protein was 0.2 μm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives.
Bio-activity	The biological activity of Mouse β-NGF was determined by in a cell proliferation assay using a factor-dependent human erythroleukemic cell line, TF-1. The expected ED50 for this effect is typically 0.3 - 1 ng/ml.

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Molecular Mass	The predicted molecular weight of Recombinant Mouse β -NGF is Mr 13.5 kDa.
AA Sequence	tapiaarvtg qtrnitvdpr lfkrrlhsp rvlfstqppp tssdtldldf qahgtipfnr thrskrssth pvfhmgefsv cdsvsvwvvgd kttatdikgk evtvlaevni nnsvfrqyff
Endotoxin	<1.0 eu/ μ g="" as="" determined="" by="" the="" la="">
Purity	>95% by SDS-PAGE and analyzed by silver stain.
Storage	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

GENE INFORMATION

Gene Name	Ngf nerve growth factor [<i>Mus musculus</i>]
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
Pathway	ARMS-mediated activation, organism-specific biosystem; Activation of TRKA receptors, organism-specific biosystem; Apoptosis, organism-specific biosystem;

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Apoptosis, conserved biosystem; Apoptosis signaling pathway, organism-specific biosystem; Axonal growth stimulation, organism-specific biosystem; Cell death signalling via NRAGE, NRIF and NADE, organism-specific biosystem;

Function

growth factor activity; nerve growth factor receptor binding; receptor binding; receptor signaling protein activity;

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