

Recombinant Human Nerve Growth Factor (Beta Polypeptide)

Cat. No. NGF-28H Lot. No. (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	Mammalian Cells
Description	Beta-NGF, also known as nerve growth factor beta-1, NGF-b1, or NGF-beta, is a neurotrophic factor that influences the growth and differentiation of sympathetic and sensory neurons. Beta-NGF, comprised alpha, beta, and gamma subunits, is a 26 kDa non-covalently associated homodimer with 2 potential N-linked glycosylation sites.
Analysis Note	The biological activity is measured in a cell proliferation assay using a factor-dependent human erythroleukemic cell line, TF-1.
Biochem/physiol Actions	NGF- β promotes the survival and cholinergic phenotype of basal forebrain cholinergic neurons and stimulates neurite outgrowth of embryonic trigeminal motor neurons in vitro.
Physical Form	Lyophilized from 0.2% acetic acid containing 5 mg bovine serum albumin.
Assay	>97% (SDS-PAGE).
Form	lyophilized powder.

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Potency	0.15-3.0 ng/mL ED50/EC50.
Total Impurities	endotoxin, tested.
Suitability	cell culture tested.
Storage Temp	-20°C.

GENE INFORMATION

Gene Name	NGF nerve growth factor (beta polypeptide) [Homo sapiens]
Synonyms	NGF; nerve growth factor (beta polypeptide); NGFB; HSAN5; Beta-NGF; MGC161426; MGC161428; Beta-nerve growth factor; nerve growth factor, beta subunit; nerve growth factor, beta polypeptide; beta-nerve growth factor; OTTHUMP00000013653
Gene ID	4803
mRNA Refseq	NM_002506
Protein Refseq	NP_002497
MIM	162030
UniProt ID	P01138
Chromosome Location	1p13.1
Pathway	Apoptosis; MAPK signaling pathway; Neurotrophin signaling pathway; Signalling by

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NGF

Function

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

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