

## Recombinant Human Nerve Growth Factor (Beta Polypeptide)

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

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>Description</b>	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.
<b>Analysis Note</b>	The biological activity is measured in a cell proliferation assay using a factor-dependent human erythroleukemic cell line, TF-1.
<b>Biochem/physiol Actions</b>	NGF- $\beta$ promotes the survival and cholinergic phenotype of basal forebrain cholinergic neurons and stimulates neurite outgrowth of embryonic trigeminal motor neurons in vitro.
<b>Physical Form</b>	Lyophilized from 0.2% acetic acid containing 5 mg bovine serum albumin.
<b>Assay</b>	>97% (SDS-PAGE).
<b>Form</b>	lyophilized powder.
<b>Potency</b>	0.15-3.0 ng/mL ED50/EC50.

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<b>Total Impurities</b>	endotoxin, tested.
<b>Suitability</b>	cell culture tested.
<b>Storage Temp</b>	-20°C.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	NGF nerve growth factor (beta polypeptide) [ Homo sapiens ]
<b>Synonyms</b>	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
<b>Gene ID</b>	4803
<b>mRNA Refseq</b>	NM_002506
<b>Protein Refseq</b>	NP_002497
<b>MIM</b>	162030
<b>UniProt ID</b>	P01138
<b>Chromosome Location</b>	1p13.1
<b>Pathway</b>	Apoptosis; MAPK signaling pathway; Neurotrophin signaling pathway; Signalling by NGF

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**Function**

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

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