Recombinant Human NGF

Cat. No. NGF-54H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Nerve Growth Factor was expressed in yeast.
Species	Human
Source	Yeast
Description	Nerve growth factor (NGF) is a naturally occurring molecule in the body which stimulates the growth and differentiation of the sympathetic and certain sensory nerves. NGF is a protein that consists of 3 types of polypeptide chains -- alpha, beta and gamma -- that interact to form the protein. The NGF beta chain (NGFB) is solely responsible for the nerve growth stimulating activity of NGF. The NGFB gene is in chromosome band 1p22. An ointment containing NGF has been reported to help heal bedsores (decubiti).This complex contains 2 identical 118-amino acid beta-chains, which are solely responsible for nerve growth stimulating activity of NGF. Human DNA fragments coding for NGF were identified by Zabel et al. (1984) using a mouse submaxillary cDNA probe.
Form	Lyophilized from sterile 20mM PB,240mM NaCl,PH6.0.
Molecular Mass	28.3kDa
Endotoxin	< 1.0 eu per μg of the protein as determined by the LAL method.
Purity	>95 % as determined by SDS-PAGE

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Applications	Western blotting, ELISA
Storage	Store it under sterile conditions at -20℃ to -103℃ upon receiving.Recommend to aliquot the protein into smaller quantities for optimal storage.

GENE INFORMATION

Gene Name	NGF nerve growth factor (beta polypeptide) [Homo sapiens]
Official Symbol	NGF
Synonyms	NGF; nerve growth factor (beta polypeptide); NGFB; beta-nerve growth factor; nerve growth factor, beta subunit; HSAN5; Beta-NGF; MGC161426; MGC161428;
Gene ID	4803
mRNA Refseq	NM_002506
Protein Refseq	NP_002497
MIM	162030
UniProt ID	P01138
Chromosome Location	1p13.1
Pathway	ARMS-mediated activation, organism-specific biosystem; Activation of TRKA receptors, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Axonal growth stimulation, organism-specific biosystem; Cell death signalling via NRAGE, NRIF and NADE, organism-specific

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	biosystem; Ceramide signalling, organism-specific biosystem;
Function	growth factor activity; nerve growth factor receptor binding; receptor signaling protein activity;

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