Recombinant Human NGF

Cat. No. NGF-29561TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human NGF expressed in modified human 293 cells.
Species	Human
Description	This gene is a member of the NGF-beta family and encodes a secreted protein which homodimerizes and is incorporated into a larger complex. This protein has nerve growth stimulating activity and the complex is involved in the regulation of growth and the differentiation of sympathetic and certain sensory neurons. Mutations in this gene have been associated with hereditary sensory and autonomic neuropathy, type 5 (HSAN5), and dysregulation of this genes expression is associated with allergic rhinitis.
Biological activity	The ED50 of NGF-29561TH is typically 0.2-1.0 ng/ml as measured in a cell proliferation assay using the human growth factor dependent TF-1 cell line.
Form	Lyophilised:It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial.Following reconstitution short-term storage at 4°C is recommended, and longer-term storage of aliquots at -18 to -20°C. Repeated freeze thawing is not reco
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 10% Trehalose, 1% Human serum albumin
Storage	Store at +4°C.

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Sequence Similarities	Belongs to the NGF-beta family.
Full Length	Full L.

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

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	activity; signal transducer activity;

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