

Recombinant Human NGF protein, His-tagged

Cat. No. NGF-537H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NGF (P01138) aa. (Glu19~Arg239) fused with His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Glu19~Arg239
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 gene's expression is associated with allergic rhinitis.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 20.9kDa; Accurate Molecular Mass: 30&33kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	> 98%

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Characteristic	Isoelectric point is 10.1.
Applications	Cell culture; Activity Assays; In vivo assays.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex

GENE INFORMATION

Gene Name	NGF nerve growth factor [Homo sapiens (human)]
Official Symbol	NGF
Synonyms	NGF; nerve growth factor; NGFB; HSAN5; Beta-NGF; beta-nerve growth factor; nerve growth factor (beta polypeptide); nerve growth factor, beta subunit
Gene ID	4803
mRNA Refseq	NM_002506.2

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Protein Refseq NP_002497.2

UniProt ID P01138

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