

Active Recombinant Human NGF Protein, Tag Free

Cat. No. NGF-11199H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Beta-NGF Protein, premium grade is expressed from human 293 cells (HEK293). It contains AA Ser 122-Ala 241 (Accession # P01138). This protein carries no "tag". Predicted N-terminus: Ser 122
Species	Human
Source	HEK293
ProteinLength	122-241 aa
Description	Nerve growth factor beta (beta-NGF) is a neurotrophic factor that plays critical role in the development and maintenance of sensory and sympathetic neurons. The active form of human beta-NGF is a noncovalently disulfide-linked homodimer, which is secreted and signals through the low affinity nerve growth factor receptor (LNGFR) and the tropomyosin receptor kinase A (TrkA) to activate PI3K, Ras, and PLC signaling pathways.
Form	Lyophilized from 0.22 µm filtered solution in 20 mM NaAC, 150 mM NaCl, pH5.5 with trehalose as protectant.
Specificity	Sterility: Negative Mycoplasma: Negative
Bio-activity	Immobilized Human Beta-NGF Protein, premium grade at 1 µg/mL (100 µL/well) can bind Human TrkA (33-417), Mouse IgG2a Fc Tag with a linear range of 1-16 ng/mL.

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Molecular Mass	The protein has a calculated MW of 13.5 kDa. The protein migrates as 14-15 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 0.01 EU/μg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE. >90% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	NGF nerve growth factor (beta polypeptide) [Homo sapiens (human)]
Official Symbol	NGF
Synonyms	NGF; nerve growth factor (beta polypeptide); NGFB; beta-nerve growth factor; nerve growth factor, beta subunit; HSN5; Beta-NGF; MGC161426; MGC161428;
Gene ID	4803
mRNA Refseq	NM_002506
Protein Refseq	NP_002497

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MIM 162030

UniProt ID P01138

SDS-PAGE



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