Active Recombinant Human beta-NGF Protein

Cat. No. NGF-213H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human beta-NGF Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Nerve growth factor beta (beta-NGF) is a neurotrophic factor that is important for the development and maintenance of sensory and sympathetic neurons. beta-NGF 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. beta-NGF is also involved in the growth, differentiation, and survival of B lymphocytes. Human, mouse, and rat beta-NGF proteins are cross-reactive.
Bio-activity	TF-1 cell proliferation, ≤5 ng/mL
Molecular Mass	Dimer, 13.6/27.3 kDa (121/242 aa)
AA Sequence	MSSSHPIFHRGEFSVCDSVSVWVGDKTTATDIKGKEVMVLGEVNINNSVFKQYFFET KCRDPNPVDSGCRGIDSKHWNSYCTTTHTFVKALTMDGKQAAWRFIRIDTACVCVL SRKAVRRA
Endotoxin	≤1 EUs/μg, Kinetic LAL
Purity	≥95%, Reducing and Non-Reducing SDS PAGE

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Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied. 1 month when stored at 4 centigrade after reconstituting as directed. 3 months when stored at -20 to -80 centigrade after reconstituting as directed.
Storage	Storage Prior to Reconstitution: -20 centigrade
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
Reconstitution	Sterile water at 0.1 mg/mL
Shipping	Room temperature
Instructions	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

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; HSAN5; Beta-NGF; MGC161426; MGC161428;
Gene ID	4803
mRNA Refseq	NM_002506

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Protein Refseq	NP_002497
MIM	162030
UniProt ID	P01138

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