Active Recombinant Mouse beta-NGF Protein

Cat. No. NGF-214M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse beta-NGF Protein without tag was expressed in E. coli.
Species	Mouse
Source	E.coli
Description	Nerve growth factor beta (β-NGF) is a neurotrophic factor that is important for the development and maintenance of sensory and sympathetic neurons. β-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. β-NGF is also involved in the growth, differentiation, and survival of B lymphocytes. Human, mouse, and rat β-NGF proteins are cross-reactive.
Bio-activity	TF-1 cell proliferation, ≤5 ng/mL
Molecular Mass	Noncovalent homodimer, 13.6 kDa/27.2 kDa (121/242 amino acids)
AA Sequence	MSSTHPVFHMGEFSVCDSVSVWVGDKTTATDIKGKEVTVLAEVNINNSVFRQYFFE TKCRASNPVESGCRGIDSKHWNSYCTTTHTFVKALTTDEKQAAWRFIRIDTACVCVL SRKATRRG
Endotoxin	≤1 EUs/μg, Kinetic LAL
Purity	≥95%, Reducing and Non-Reducing SDS PAGE

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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
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 [Mus musculus (house mouse)]
Official Symbol	NGF
Synonyms	NGF; nerve growth factor; beta-nerve growth factor; beta-NGF; nerve growth factor, beta; Ngfb;
Gene ID	18049
mRNA Refseq	NM_001112698
Protein Refseq	NP_001106168

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

UniProt ID	P01139

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA