

Active Recombinant Human NGF Protein, Animal Free

Cat. No. NGF-41H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human NGF Protein without tag was expressed in Human cells. Animal Free and Xeno Free
Species	Human
Source	Human Cells
Description	Nerve growth factors (NGFs) is composed of three noncovalently linked subunits, α , β , and γ , while the β subunit, called NGF- β exhibits all the biological activities ascribed to NGF. NGF- β is important for the development and maintenance of the sympathetic and sensory nervous systems. NGF- β is a well characterized neurotropic protein that plays a critical role in the development of sympathetic and some sensory neurons in the peripheral nervous system. In addition, NGF- β can also act in the central nervous system as a trophic factor for basal forebrain cholinergic neurons. NGF- β has also been shown to have biological effects on non-neuronal tissues.
Bio-activity	The activity was measured by its ability to stimulate the proliferation of human TF-1 cells (human erythroleukemic indicator cell line).
Molecular Mass	13 kDa homotrimer
Endotoxin	<0.5 EU/ μ g
Purity	High Purity, >95% by 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	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. In general: 12 months from date of receipt, -20 to -80 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -80 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in PBS without carrier protein
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

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
MIM	162030
UniProt ID	P01138

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