

Beta-Nerve Growth Factor (NGF) Active Protein | NGF active protein

Recombinant Human Beta-nerve growth factor (NGF) (Active)

CATALOG #
AAA235613

HOST
E Coli

PRODUCT SYNONYMS

Beta-Nerve Growth Factor (NGF); Recombinant Human Beta-nerve growth factor (NGF) (Active); Beta-Nerve Growth Factor; Beta-NGF; NGF; NGFB; NGF active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized from a 0.2 mum Filtered 20 mM PB, 250 mM NaCl, pH 7.0
Sequence Positions	122-241aa; Full Length of Mature Protein
Sequence	SSSHPIFHRG EFSVCDSVSV WVGDKTTATD IKGKEVMVLG EVNINNSVFK QYFFETKCRD PNPVDSGCRG IDSKHWNSYC TTTHTFVKAL TMDGKQAAWR FIRIDTACVC VLSRKAVRRA
Species	Human
Tag	Tag-Free
Endotoxin	Less than 1.0 EU/ug as determined by LAL method.
Biological Activity	The ED50 as determined in a cell proliferation assay using TF-1 human erythroleukemic cells is less than 2 ng/ml.
Subcellular Location	Secreted
Protein Families	NGF-beta Family
Classification	Cytokine
Subdivision	Growth Factor
Pathway	MAPK Signaling Pathway
Preparation and Storage	Store at -20 degree C. For extended storage, conserve at -20 degree C or -80 degree C. Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week.

ADDITIONAL INFORMATION

Related Product Information for NGF active protein	Relevance: Human beta-Nerve Growth Factor (beta-NGF) was initially isolated in the mouse submandibular gland. It is composed of three non-covalently linked subunits alpha, beta, and gamma; it exhibits all the biological activities ascribed to NGF. It is structurally related to BDNF, NT-3 and NT-4 and belongs to the cysteine-knot family of growth factors that assume stable dimeric structures. beta-NGF is a neurotrophic factor that signals through its receptor beta-NGF, and plays a crucial role in the development and preservation of the sensory and sympathetic nervous systems. beta-NGF also acts as a growth and differentiation factor for B lymphocytes and enhances B-cell survival. These results suggest that beta-NGF is a pleiotropic cytokine, which in addition to its neurotropic activities may have an important role in the regulation of the immune system. Human beta-NGF shares 90% sequence similarity with mouse protein and shows cross-species reactivity. Function: Nerve growth factor is important for the development and maintenance of the sympathetic and sensory nervous systems. Extracellular ligand for the NTRK1 and NGFR receptors, activates cellular signaling cascades through those receptor tyrosine kinase to regulate neuronal proliferation, differentiation and survival. Inhibits metalloproteinase dependent proteolysis of platelet glycoprotein VI.
Product Categories/Family for NGF active protein	Neuroscience

NCBI AND UNIPROT INFORMATION

NCBI GI #	90110037
NCBI GeneID	4803
UniProt Accession #	P01138
Molecular Weight	13.4 kDa
NCBI Official Full Name	Beta-nerve growth factor
NCBI Official Synonym Full Names	nerve growth factor
NCBI Official Symbol	NGF
NCBI Official Synonym Symbols	NGFB; HSAN5; Beta-NGF
NCBI Protein Information	beta-nerve growth factor
UniProt Protein Name	Beta-nerve growth factor
UniProt Gene Name	NGF
UniProt Synonym Gene Names	NGFB; Beta-NGF
UniProt Entry Name	NGF_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/beta-nerve-growth-factor-ngf/235613>