BETA-NGF Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Beta-NGF, Recombinant Protein
Full Product Name	Recombinant Human Beta-NGF
Product Gene Name	Beta-NGF recombinant protein
Product Synonym Names	NGF; beta-NGF; Nerve Growth Factor
Host	E Coli
Form/Format	Lyophilized Powder
Purity/Purification	>95% as determined by SDS-PAGE
Preparation and Storage	The lyophilized protein is stable for at least one year from date of receipt at-70 degree C. Upon reconstitution, this cytokine can be stored in working aliquots at 2-8 degree C for one month, or at-20 degree C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.
Molecular Weight	14.0 kDa
OMIM	gene 608654
3D Structure	ModBase 3D Structure for P01138
Endotoxin Level	<1.0 EU/ug of recombinant protein as determined by the LAL method.
Reconstitution	Reconstitute at 0.1mg/ml in sterile PBS
Related Product Information for Beta-NGF recombinant protein	beta-NGF is a potent neurotrophic factor that 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. beta-NGF belongs to the cysteine-knot family of growth factors that assume stable, disulfide-linked homodimeric structures. Recombinant human beta-NGF shares approximately 90% homology with both the mouse and rat betaNGF at the primary level.
Other Notes	Small volumes of Beta-NGF recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Beta-NGF purchase	MBS4159827 is a recombinant protein targeting Beta-NGF. Also known as Recombinant Human Beta-NGF. Host: E Coli.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Beta-NGF. It may not necessarily be applicable to this product.

NCBI GI #	90110037
NCBI GeneID	4803
NCBI Accession #	P01138.3
UniProt Primary Accession #	P01138
UniProt Related Accession #	P01138
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
UniProt Protein Name	Beta-nerve growth factor
Protein Family	Beta-nerve growth factor
UniProt Gene Name	NGF
UniProt Synonym Gene Names	NGFB; Beta-NGF
UniProt Entry Name	NGF_HUMAN
NCBI Protein Information	beta-nerve growth factor
NCBI Summary for Beta-NGF	This gene is a member of the NGF-beta family and encodes a secreted protein which homodimerizes and is incorporated into a larger complex. This protein has nerve growth stimulating activity and the complex is involved in the regulation of growth and the differentiation of sympathetic and certain sensory neurons. Mutations in this gene have been associated with hereditary sensory and autonomic neuropathy, type 5 (HSAN5), and dysregulation of this gene's expression is associated with allergic rhinitis. [provided by RefSeq, Jul 2008]
UniProt Comments for Beta-NGF	NGF: 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. Homodimer. Belongs to the NGF-beta family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 1p13.1 Cellular Component: extracellular space; Golgi lumen; cytoplasmic membrane-bound vesicle; extracellular region; endosome Molecular Function: metalloendopeptidase inhibitor activity; protein binding; nerve growth factor receptor binding; growth factor activity; receptor signaling protein activity Biological Process: response to nicotine; circadian rhythm; response to peptide hormone stimulus; nerve growth factor receptor signaling pathway; activation of MAPKK activity; positive regulation of apoptosis; adult locomotory behavior; regulation of neuron differentiation; positive regulation of axon extension; response to glucocorticoid stimulus; regulation of neurotransmitter secretion; response to lipopolysaccharide; regulation of caspase activity; sensory perception of pain; regulation of axonogenesis; negative regulation of cell cycle; nerve growth factor processing; response to radiation; cell-cell signaling; small GTPase mediated signal transduction; negative regulation of neuron apoptosis; response to electrical stimulus; inflammatory response; response to drug; positive regulation of neuron maturation; phosphoinositide-mediated signaling; positive regulation of protein amino acid autophosphorylation; positive regulation of nerve growth factor receptor signaling pathway; regulation of release of sequestered calcium ion into cytosol; memory; peripheral nervous system development; neuron apoptosis; induction of apoptosis via death domain receptors; response to mechanical stimulus; phospholipase C activation; response to ozone; Ras protein signal transduction; positive regulation of axonogenesis; positive regulation of transcription factor activity; neurite morphogenesis; transmembrane receptor protein tyrosine kinase signaling pathway; negative regulation of apoptosis Disease: Neuropathy, Hereditary Sensory And Autonomic, Type V
Research Articles on Beta-NGF	**1.** The results demonstrated that high serum NGF concentrations were independently associated with the better functional prognosis at 3months following the occurrence of stroke.
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