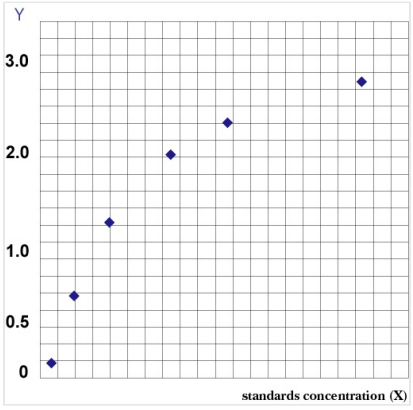
Beta Nerve Growth Factor (NGF) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Beta Nerve Growth Factor (NGF), ELISA Kit
Full Product Name	Human beta Nerve Growth Factor ELISA Kit
Product Gene Name	NGF elisa kit
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernate and other biological fluids
Detection Range	25ng/ml-400ng/ml
Sensitivity	1 ng/ml
OMIM	gene 608654
3D Structure	ModBase 3D Structure for P01138
Production Time	Due to severe delay and raw materials shortage, production time may takes between 5-8 weeks.
Related Product Information for NGF elisa kit	Intended Use: The Stop Solution changes the color from blue to yellow and the intensity of the color is measured at 450 nm using a spectrophotometer. In order to measure the concentration ofBETA NERVE GROWTH FACTORin the sample, This BETA NERVE GROWTH FACTORELISA Kit includes a set of calibration standards. The calibration standards are assayed at the same time as the samples and allow the operator to produce a standard curve of Optical Density versusBETA NERVE GROWTH FACTORconcentration. The concentration ofBETA NERVE GROWTH FACTORin the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of NGF elisa kit 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 NGF purchase	MBS3804152 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Beta Nerve Growth Factor (NGF) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing NGF. The ELISA analytical biochemical technique of the MBS3804152 kit is based on NGF antibody-NGF antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect NGF antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, NGF. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of NGF elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	70995319
NCBI GeneID	4803
NCBI Accession #	NP_002497.2
UniProt Primary Accession #	P01138
UniProt Related Accession #	P01138
GenBank Nucleotide #	NP_002497.2
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 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 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 NGF	**1.** This finding supports the hypothesis that NGF plays a role in multiple sclerosis related central neuropathic pain
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