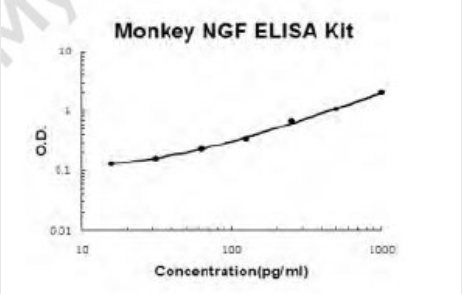
NGF/NGF Beta (NGF) ELISA Kit for Monkey

PRODUCT OVERVIEW

Product Name	NGF/NGF Beta, ELISA Kit
Full Product Name	Monkey primate NGF/NGF Beta PicoKine ELISA Kit
Product Gene Name	NGF elisa kit
Product Synonym Names	Beta-nerve growth factor; Beta-NGF; NGF; NGFB
Species Reactivity	Monkey There is no detectable cross-reactivity with other relevant proteins.
Assay Type	Quantitative Sandwich
Detection Range	15.6pg/ml-1000pg/ml
Sensitivity	<1pg/ml
Specificity	Natural and recombinant 215 Monkey primate NGF/NGF Beta
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration weretested in separate assays to assess inter-assay precision.
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration weretested on one plate to assess intra-assay precision
Molecular Weight	26959 MW
OMIM	V01511 Genomic DNA
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.
Product Categories/Family for NGF elisa kit	Neuroscience; Neurology Process; Growth and Development; neurotrophins; Stem Cells; Neural Stem Cells; Surface Molecules; mesenchymal stem cells
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for NGF elisa kit	ELISA (EIA)

Related Product Information for NGF elisa kit	Principle of the Assay: 215 Monkey primate NGF/NGF Beta ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Monkey primate NGF/NGF Beta has been precoated onto 96-well plates. Standards(Expression system for standard: NSO; Immunogen sequence: S122-A241) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Monkey primate NGF/NGF Beta is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the 215 Monkey primate NGF/NGF Beta amount of sample captured in plate. Background: Nerve growth factor(NGF) is a polypeptide involved in the regulation of growth and differentiation of sympathetic and certain sensory neurons. NGF is thought to have a profound effect on the development and maintenance of sympathetic and embryonic sensory neurones. NGF activity isolated from the male monkey primate submaxillary gland(MSG) consists of three types of subunits, alpha, beta and gamma, which specifically interact to form a 7S, approximately 130,000-molecular weight(Mr) complex. The 7S complex contains two identical 118-amino acid beta-chains, which are solely responsible for the nerve growth-stimulating activity of NGF. NGF, which is expressed by inflammatory cells and effects changes that lead to increased neural responsiveness, could be a pivotal mediator in allergic rhinitis. The standard product used in this kit is monkey primate 2.5S NGF, which is a dimmer linking with two polypeptide chains of 120 amino acids.
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	MBS1751044 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the NGF/NGF Beta, 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 MBS1751044 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 Secondary Accession #	Q6FHA0; Q96P60; Q9P2Q8; Q9UKL8; A1A4E5
UniProt Related Accession #	P01138
GenBank Nucleotide #	NM_002506.2
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
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	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 (PubMed:20164177).
Research Articles on NGF	**1.** Many studies indicate that the only presence of NGF is unable to generate cell carcinogenesis, both in normal neuronal and non-neuronal cells/tissues. However, it cannot be excluded the possibility that the co-expression of NGF and pro-carcinogenic molecules might open to different consequence. [review]
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/monkey-elisa-kits/ngf-ngf-beta/1751044