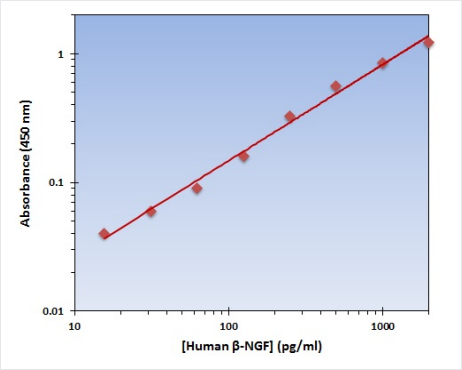
# Beta-NGF ELISA Kit for Human

## PRODUCT OVERVIEW

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| **Product Name** | beta-NGF, ELISA Kit |
| **Full Product Name** | beta-NGF (Human) OmniKine ELISA Kit |
| **Product Gene Name** | beta-NGF elisa kit |
| **Product Synonym Gene Name** | NGF |
| **Product Synonym Names** | Beta-nerve growth factor |
| **Species Reactivity** | Human |
| **Assay Type** | Sandwich ELISA |
| **Samples** | Plasma, serum, lysate |
| **Detection Range** | 16-2000 pg/ml |
| **Sensitivity** | 16-2000 pg/ml |
| **Form/Format** | 12 x 8-Well Microstrips |
| **Specificity** | The OmniKine Human beta-NGF ELISA is capable of recognizing both recombinant and naturally produced Human beta-NGF proteins. The antigens listed below were tested at 50 ng/ml and exhibited 100% cross reactivity.<br>Murine: beta-NGF<br>The antigens listed below were tested at 50 ng/ml and exhibited less than 1% cross reactivity.<br>Human: BDNF<br>The antigens listed below were tested at 50 ng/ml and did not exhibit significant cross reactivity or interference.<br>Human: Artemin, CNTF, EG-VEGF, EGF, FGF-9, Galectin-1, GDNF, Midkine, Neurturin, NT-3, NT-4, OPG, Persephin, Pleiotrophin, RELMbeta, Resistin, VEGF |
| **Preparation and Storage** | Store entire kit at 4 degree C until use. |
| **Molecular Weight** | 26,959 Da |
| **OMIM** | V01511 Genomic DNA |
| **3D Structure** | ModBase 3D Structure for P01138 |
| **Detection Method** | Colorimetric 450 nm |
| **Subtype** | None |
| **Related Product Information for beta-NGF elisa kit** | MBS9501833 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the beta-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 beta-NGF. The ELISA analytical biochemical technique of the MBS9501833 kit is based on beta-NGF antibody-beta-NGF antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect beta-NGF antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, beta-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(%). |
| **Other Notes** | Small volumes of beta-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. |




**Testing Data of beta-NGF elisa kit**
The OmniKine Human beta-NGF ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human beta-NGF proteins within the range of 16-2000 pg/ml.

## ADDITIONAL DETAILS

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

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| **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 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] |

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| **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.<br><br>Protein type: Secreted; Secreted, signal peptide<br><br>Chromosomal Location of Human Ortholog: 1p13.2<br><br>Cellular Component: cytoplasmic vesicle; endosome; extracellular region; Golgi lumen<br><br>Molecular Function: growth factor activity; metalloendopeptidase inhibitor activity; nerve growth factor receptor binding; protein binding<br><br>Biological Process: activation of cysteine-type endopeptidase activity involved in apoptotic process; activation of MAPKK activity; cell-cell signaling; induction of apoptosis via death domain receptors; microtubule-based movement; negative regulation of apoptosis; negative regulation of cysteine-type endopeptidase activity involved in apoptotic process; negative regulation of neuron apoptosis; nerve growth factor processing; nerve growth factor receptor signaling pathway; neuron projection morphogenesis; phosphoinositide-mediated signaling; positive regulation of apoptosis; positive regulation of axonogenesis; positive regulation of Ras protein signal transduction; regulation of caspase activity; regulation of neuron differentiation; transmembrane receptor protein tyrosine kinase signaling pathway<br><br>Disease: Neuropathy, Hereditary Sensory And Autonomic, Type V |
| **Research Articles on beta-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] |
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