NGF (Human) ELISA Kit

Catalog # KA0399 Size 1 Kit

Specification

Product Description	NGF (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human NGF.
Suitable Sample	Cell Culture Supernatant, Serum
Sample Volume	100 uL
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	31.2 to 2,000 pg/mL
Limit of Detection	15 pg/mL
Reactivity	Human
Regulation Status	For research use only (RUO)
Storage Instruction	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles.

Applications

- Quantification

Gene Info — NGF

Entrez GeneID	4803
Gene Name	NGF

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Gene Alias	Beta-NGF, HSAN5, MGC161426, MGC161428, NGFB
Gene Description	nerve growth factor (beta polypeptide)
Omim ID	162030 608654
Gene Ontology	Hyperlink
Gene Summary	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
Other Designations	OTTHUMP00000013653|beta-nerve growth factor|nerve growth factor, beta polypeptide|nerve growth factor, beta subunit

Publication Reference

- Exercise as Modulator of Brain-Derived Neurotrophic Factor (BDNF) in Children: A Systematic Review of Randomized Controlled Trials.

  Markel Rico-González, Daniel González-Devesa, Carlos D Gómez-Carmona, Adrián Moreno-Villanueva.

  Life 2025 Jul; 15(7):1147.

  Application: ELISA, Quant, Human, Serum

- Changes in nerve growth factor in vastus lateralis muscle after the first versus second bout of one-leg eccentric cycling.

  Tomoko Koeda, Georgios Mavropalias, Kazue Mizumura, Kimiaki Katanosaka, Kazunori Nosaka.

  Scandinavian Journal of Medicine & Science in Sports 2023 Sep; [Epub].

  Application: ELISA, Human, Human muscle

- Production of functional human nerve growth factor from the submandibular glands of mice using a CRISPR/Cas9 genome editing system.

  Yi Gu, Hui Cao, Fei Li, Jianli Yu, Rui Nian, Dongxiao Feng, Jingtao Lin, Haipeng Song, Wenshuai Liu.

  World Journal of Microbiology & Biotechnology 2020 Oct; 36(12):176.

  Application: Quant, Human, TF1 cells

- Nerve growth factor expression and release in allergic inflammatory disease of the upper airways.

  Sanico AM, Stanisz AM, Gleeson TD, Bora S, Proud D, Bienenstock J, Koliatsos VE, Togias A.

  American Journal of Respiratory and Critical care Medicine 2000 May; 161(5):1631.

  Application: ELISA, Human, Nasal lavage fluids

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- Human beta-nerve growth factor gene sequence highly homologous to that of mouse.

  Ullrich A, Gray A, Berman C, Dull TJ.

  Nature 1983 Jun; 303(5920):821.

Pathway

- Apoptosis
- MAPK signaling pathway
- Neurotrophin signaling pathway

Disease

- Alzheimer disease
- Anxiety Disorders
- Asperger Syndrome
- Asthma
- Attention Deficit Disorder with Hyperactivity
- Autistic Disorder
- Bronchiolitis
- Dermatitis
- Disease Models
- Eating Disorders
- Genetic Predisposition to Disease
- Hereditary Sensory and Autonomic Neuropathies
- Infant
- Kidney Failure
- Mental Disorders

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- Multiple Sclerosis
- Personality Assessment
- Psychiatric Status Rating Scales
- Respiratory Syncytial Virus Infections
- Social Perception

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