

GNDF (Human) ELISA Kit

Catalog # KA0984

Size 1 Kit

Specification

Product Description	GNDF (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human GDNF.
Suitable Sample	Cell Culture Supernatant, Cell Lysates, Plasma (EDTA, Heparin), Serum
Sample Volume	100 μ L
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	31.2 to 2000 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 — GDNF

Entrez GeneID	2668
Gene Name	GDNF
Gene Alias	ATF1, ATF2, HFB1-GDNF

Gene Description	glial cell derived neurotrophic factor
Omim ID	142623 171300 209880 600837
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a highly conserved neurotrophic factor. The recombinant form of this protein was shown to promote the survival and differentiation of dopaminergic neurons in culture, and was able to prevent apoptosis of motor neurons induced by axotomy. The encoded protein is processed to a mature secreted form that exists as a homodimer. The mature form of the protein is a ligand for the product of the RET (rearranged during transfection) protooncogene. In addition to the transcript encoding GDNF, two additional alternative transcripts encoding distinct proteins, referred to as astrocyte-derived trophic factors, have also been described. Mutations in this gene may be associated with Hirschsprung disease. [provided by RefSeq]
Other Designations	astrocyte-derived trophic factor glial cell line derived neurotrophic factor glial derived neurotrophic factor

Publication Reference

- [Neurotrophic factor GDNF regulates intestinal barrier function in inflammatory bowel disease.](#)

Meir M, Burkard N, Ungewiß H, Diefenbacher M, Flemming S, Kannapin F, Germer CT, Schweinlin M, Metzger M, Waschke J, Schlegel N.

The Journal of Clinical Investigation 2019 Jun; 130:120261.

Application: Quant, Human, Human serum

- [Concentration of Glial Cell Line-Derived Neurotrophic Factor Positively Correlates with Symptoms in Functional Dyspepsia.](#)

Tanaka F, Tominaga K, Fujikawa Y, Nagami Y, Kamata N, Yamagami H, Tanigawa T, Shiba M, Watanabe T, Fujiwara Y, Arakawa T.

Digestive Diseases and Sciences 2016 Oct; 61(12):3478.

Application: Quan, Human, Duodenal mucosa

- [GDNF signalling through the Ret receptor tyrosine kinase.](#)

Durbec P, Marcos-Gutierrez CV, Kilkenny C, Grigoriou M, Wartiovaara K, Suvanto P, Smith D, Ponder B, Costantini F, Saarma M, et al..

Nature 1996 Jun; 381(6585):789.

- [Human glial cell line-derived neurotrophic factor \(GDNF\) maps to chromosome 5.](#)

Bermingham N, Hillermann R, Gilmour F, Martin JE, Fisher EM.

Human Genetics 1995 Dec; 96(6):671.

- [GDNF: a glial cell line-derived neurotrophic factor for midbrain dopaminergic neurons.](#)

Lin LF, Doherty DH, Lile JD, Bektesh S, Collins F.

Science 1993 May; 260(5111):1130.

Disease

- [Attention Deficit Disorder with Hyperactivity](#)
- [Celiac Disease](#)
- [Genetic Predisposition to Disease](#)
- [Hirschsprung Disease](#)
- [Hydronephrosis](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Mental Disorders](#)
- [Narcolepsy](#)
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