Gdnf (Rat) ELISA Kit

Catalog # KA0341 Size 1 Kit

Specification

Product Description	Gdnf (Rat) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of rat Gdnf.
Suitable Sample	Cell Culture Supernatants, Cell Lysates, Serum, Plasma (Heparin, EDTA).
Sample Volume	100 uL
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	31.2 to 2000 pg/mL
Reactivity	Rat
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	25453
Gene Name	Gdnf
Gene Alias	-

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Gene Description	glial cell derived neurotrophic factor
Gene Ontology	Hyperlink
Other Designations	Glial cell line derived neutrophic factor|glial cell line derived neurotrophic factor

Publication Reference

- Hypoxic stress promotes astrocyte infiltration-like growth via HIF-1 α GDNFLOXL2 axis.

  Zimu Li, Shun Xi, Ziqi Zhang, Xugang Kan, Yang Zhang, Miaomiao Wang, Yudong Wang, Yefeng Shi, Haoyue Xu, Baole Zhang.

  Biochimica et Biophysica Acta. Molecular Basis of Disease 2025 Mar; 1871(3):167702.

  Application: ELISA, Rat, RA cell

- Peripheral Nerve Regeneration-Adipose-Tissue-Derived Stem Cells Differentiated by a Three-Step Protocol Promote Neurite Elongation via NGF Secretion.

  Silvan Klein, Andreas Siegmund, Andreas Eigenberger, Valerie Hartmann, Felix Langewost, Nicolas Hammer, Alexandra Anker, Konstantin Klein, Christian Morsczeck, Lukas Prantl, Oliver Felthaus

  Cells 2022 Sep; 11(18):0.

- The effect of co-transplantation of nerve fibroblasts and Schwann cells on peripheral nerve repair.

  Wang Y, Li D, Wang G, Chen L, Chen J, Liu Z, Zhang Z, Shen H, Jin Y, Shen Z.

  International Journal of Biological Sciences 2017 Nov; 13(12):1507.

  Application: Quant, Mouse, Mouse nerve fibroblasts and Schwann cells

- Vascular Endothelial Growth Factor Enhanced the Angiogenesis Response of Human Umbilical Cord-Derived Mesenchymal Stromal Cells in a Rat Model of Radiation Myelopathy.

  You H, Wei L, Zhang J, Wang JN.

  Neurochemical Research 2015 Sep; 40(9):1892.

  Application: ELISA, Rat, Serum

- Multiple injections of human umbilical cord-derived mesenchymal stromal cells through the tail vein improve microcirculation and the microenvironment in a rat model of radiation myelopathy.

  Wei L, Zhang J, Xiao XB, Mai HX, Zheng K, Sun WL, Wang L, Liang F, Yang ZL, Liu Y, Wang YQ, Li ZF, Wang JN, Zhang WJ, You H.

  Journal of Translational Medicine 2014 Sep; 12(1):246.

  Application: ELISA, Rat, Spinal cord

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- Enhancing the interaction between annexin-1 and formyl peptide receptors regulates microglial activation to protect neurons from ischemia-like injury.

  Luo ZZ, Gao Y, Sun N, Zhao Y, Wang J, Tian B, Shi J.

  Journal of Neuroimmunology 2014 Nov; 276(1-2):24.

  Application: S-ELISA, Rat, Neuron-microglia cells

- Spinal Cord Stimulation Exerts Neuroprotective Effects against Experimental Parkinson's Disease.

  Shinko A, Agari T, Kameda M, Yasuhara T, Kondo A, Tayra JT, Sato K, Sasaki T, Sasada S, Takeuchi H, Wakamori T, Borlongan CV, Date I.

  PLoS One 2014 Jul; 9(7):e101468.

  Application: ELISA, Rat, Supernatants from brain extracted

- GDNF signalling through the Ret receptor tyrosine kinase.

  Durbec P, Marcos-Gutierrez CV, Kilkenny C, Grigoriou M, Wartiowaara 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.

  Hum Genet 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.

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