Bdnf (Rat) ELISA Kit

Catalog # KA0330 Size 1 Kit

Specification

Product Description	Bdnf (Rat) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of rat Bdnf.
Suitable Sample	Cell Culture Supernatant, Cell Lysates, Plasma (Heparin, EDTA, Citrate), Serum
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 — Bdnf

Entrez GeneID	24225
Gene Name	Bdnf
Gene Alias	MGC105254

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Gene Description	brain derived neurotrophic factor
Gene Ontology	Hyperlink
Other Designations	Brain derived neurothrophic factor|brain-derived neurotrophic factor

Publication Reference

- Expression and role of cocaine-amphetamine regulated transcript (CART) in the proliferation of biliary epithelium.

  Arianna Casini, Giorgio Vivacqua, Rosa Vaccaro, Anastasia Renzi, Stefano Leone, Luigi Pannarale, Antonio Franchitto, Paolo Onori, Romina Mancinelli, Eugenio Gaudio.

  European Journal of Histochemistry 2023 Oct; 67(4):3846.

  Application: ELISA, Rat, Cholangiocytes

- Combined neurotoxic effects of cannabis and nandrolone decanoate in adolescent male rats.

  El-Shamarka ME, Sayed RH, Assaf N, Zeidan HM, Hashish AF.

  Neurotoxicology 2020 Jan; 76:114.

  Application: Quant, Rat, Rat hippocampus

- Lercanidipine boosts the efficacy of mesenchymal stem cell therapy in 3-NP-induced Huntington's disease model rats via modulation of the calcium/calcineurin/NFATc4 and Wnt/β-catenin signalling pathways.

  Elbaz EM, Helmy HS, El-Sahar AE, Saad MA, Sayed RH.

  Neurochemistry International 2019 Dec; 131:104548.

  Application: Quant, Rat, Rat brains

- Blockade of TLR4 within the Paraventricular Nucleus Attenuates Blood Pressure by Regulating ROS and Inflammatory Cytokines in Prehypertensive Rats.

  Wang ML, Yu XJ, Li XG, Pang DZ, Su Q, Saahene RO, Li HB, Mao XY, Liu KL, Fu LY, Li Y, Zhu GQ, Kang YM.

  American Journal of Hypertension 2018 Aug; 31(9):1013.

  Application: ELISA, Rat, Plasma

- Differences in vaping topography in relation to adherence to exclusive electronic cigarette use in veterans.

  Guerrero-Cignarella A, Luna Diaz LV, Balestrini K, Holt G, Mirsaeidi M, Calderon-Candelario R, Whitney P, Salathe M, Campos MA.

  PLoS one 2018 Apr; 13(4):e0195896.

  Application: ELISA, Human, Plasma

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- An antioxidant specifically targeting mitochondria delays progression of Alzheimer's disease-like pathology.

  Stefanova NA, Muraleva NA, Maksimova KY, Rudnitskaya EA, Kiseleva E, Telegina DV, Kolosova NG.

  Aging 2016 Oct; 8(11):2713.

  Application: Quan, Rat, Rat hippocampus

- 7,8-Dihydroxyflavone, a Tropomyosin-Kinase Related Receptor B Agonist, Produces Fast-Onset Antidepressant-Like Effects in Rats Exposed to Chronic Mild Stress.

  Chang H, Wang Y, Tung C, Yeh C, Liu Y.

  Psychiatry Investigation 2016 Apr; 13(5):531.

  Application: Quant, Rat, Rat hippocampus

- Effect of Housing Types on Growth, Feeding, Physical Activity, and Anxiety-Like Behavior in Male Sprague-Dawley Rats.

  Teske JA, Perez-Leighton CE, Noble EE, Wang C, Billington CJ, Kotz CM.

  Frontiers in Nutrition 2016 Feb; 3:4.

  Application: ELISA, Rat, Hypothalamic Paraventricular Nucleus, Brain

- Optimal Timing of Mesenchymal Stem Cell Therapy for Neonatal Intraventricular Hemorrhage.

  Won Soon Park, Se In Sung, So Yoon Ahn, Dong Kyung Sung, Geun Ho Im, Hye Soo Yoo, Soo Jin Choi, Yun Sil Chang

  Cell Transplant 2015 Oct; 25(6):1131-44.

- Effects of a human milk oligosaccharide, 2-fucosyllactose, on hippocampal long-term potentiation and learning capabilities in rodents.

  Vazquez E, Barranco A, Ramirez M, Gruart A, Delgado-Garcia JM, Martinez-Lara E, Blanco S, Martin MJ, Castanys E, Buck R, Prieto P, Rueda R.

  The Journal of Nutritional Biochemistry 2015 May; 26(5):455.

  Application: ELISA, Rat, Protein extracted from cortex, striatum and hippocampus

- Beneficial effects of melatonin in a rat model of sporadic Alzheimer's disease.

  Rudnitskaya EA, Maksimova KY, Muraleva NA, Logvinov SV, Yanshole LV, Kolosova NG, Stefanova NA.

  Biogerontology 2015 Jun; 16(3):303.

  Application: ELISA, Rat, Hippocampus

- Secretomes of apoptotic mononuclear cells ameliorate neurological damage in rats with focal ischemia.

  Patrick Altmann, Michael Mildner, Thomas Haider, Denise Traxler, Lucian Beer, Robin Ristl, Bahar Golabi, Christian Gabriel, Fritz Leutmezer, Hendrik Jan Ankersmit

  F1000Res 2014 Nov; 3:131.

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- Brain stem slice conditioned medium contains endogenous BDNF and GDNF that affect neural crest boundary cap cells in co-culture.

  Kaiser A, Kale A, Novozhilova E, Siratirakun P, Aquino JB, Thonabulsombat C, Ernfors P, Olivius P.

  Brain Research 2014 May; 1566:12.

  Application: ELISA, Rat, Brain stem slice conditioned medium

- Perinatal exposure to lead induces morphological, ultrastructural and molecular alterations in the hippocampus.

  Baranowska-Bosiacka I, Strużyńska L, Gutowska I, Machalińska A, Kolasa A, Kłos P, Czapski GA, Kurzawski M, Prokopowicz A, Marchlewicz M, Safranow K, Machaliński B, Wiszniewska B, Chlubek D.

  Toxicology 2013 Jan; 303:187.

  Application: ELISA, Rat, Brain extracted

- Functional improvement and neurogenesis after collagen-GAG matrix implantation into surgical brain trauma.

  Huang KF, Hsu WC, Chiu WT, Wang JY.

  Biomaterials 2011 Dec; 33(7):2067.

  Application: Quant, Rat, Rat brain

- Postsynaptic Induction of BDNF-Mediated Long-Term Potentiation.

  Kovalchuk Y, Hanse E, Kafitz KW, Konnerth A.

  Science 2002 Mar; 295(5560):1729.

- Brain-derived neurotrophic factor-deficient mice develop aggressiveness and hyperphagia in conjunction with brain serotonergic abnormalities.

  Lyons WE, Mamounas LA, Ricaurte GA, Coppola V, Reid SW, Bora SH, Wihler C, Koliatsos VE, Tessarollo L.

  PNAS 1999 Dec; 96(26):15239.

- Molecular cloning of a human gene that is a member of the nerve growth factor family.

  Jones KR, Reichardt LF.

  PNAS 1990 Oct; 87(20):8060.

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