

Mouse BDNF ELISA Kit

Catalog No: #EK5128

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Description

Product Name	Mouse BDNF ELISA Kit
Specificity	Mouse
Crossing Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Immunogen Type	sf21,H129-R247
Other Names	Brain-derived neurotrophic factor; BDNF; Bdnf;
Accession No.	P21237
Cell Localization	Secreted.

Application Details

sensitivity:2pg mlDetect Range:31.2pg ml-2000pg mlsample_type:cell culture supernates cell lysates tissue homogenates serum and plasma (heparin EDTA citrate).capture_antibody:monoclonal antibody from ratdetection_antibody:polyclonal antibody from goatgene_name:BDNFprotein_name:Brain-derived neurotrophic factorgene_full_name:Brain-derived neurotrophic factortissue_specificity:sequence_similarities:tmb_incubation:20-25minresearch_category:neuroscience|neurology process|growth and development|neurotrophins|neurodegenerative disease|huntington"s disease|alzheimer"s disease|cardiovascular|atherosclerosis|diabetes associated|thrombosis|metabolism|types of disease|diabetes|obesity

Product Description

Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse BDNF

Background

protein_function: During development, promotes the survival and differentiation of selected neuronal populations of the peripheral and central nervous systems. Participates in axonal growth, pathfinding and in the modulation of dendritic growth and morphology. Major regulator of synaptic transmission and plasticity at adult synapses in many regions of the CNS. Brain-derived neurotrophic factor (BDNF) is a pro-survival factor induced by cortical neurons that is necessary for survival of striatal neurons in the brain. It is a secreted protein with the molecular weight of 27.8 kDa, consisting of 247 amino acids. It is known to promote neuronal survival and differentiation. BDNF shares substantial amino acid sequence identity with nerve growth factor (NGF). BDNF and neurotrophin-3 (NT-3) are two recently cloned neurotrophic factors that are homologous to NGF. mRNA products of the BDNF and NT-3 genes are detected in the adult human brain, suggesting that these proteins are involved in the maintenance of the adult nervous system. BDNF and other neurotrophins are critically involved in long-term potentiation (LTP). BDNF-mediated LTP is induced postsynaptically. BDNF has trophic effects on serotonergic (5-HT) neurons in the central nervous system. BDNF has an essential maintenance function in the regulation of anxiety-related behavior and in food intake through central mediators in both the basal and fasted state. It plays a role in treating breathing disorders such as respiratory insufficiency after spinal injury. The mature form of BDNF is identical in all mammals examined, and the gene encoding human BDNF is on chromosome 11, band p13.

Published Papers

el at., Osteopontin promotes microglia activation and aggravates neuromyelitis optica via interferon-gamma/nuclear factor kappa B/interleukin-12 signaling, , (2022)

PMID:

Note: This product is for in vitro research use only and is not intended for use in humans or animals.