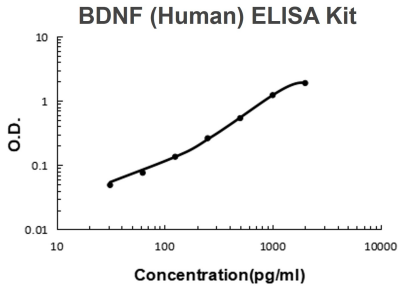
BDNF (Human) ELISA Kit

Catalog # KA0329 Size 1 Kit

Applications



The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.

Specification

Product Description	BDNF (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human BDNF.
Suitable Sample	Cell Culture Supernatant, Cell Lysates, Plasma (Citrate, EDTA, Heparin), Serum
Sample Volume	100 uL
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

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- Quantification

Gene Info — BDNF

Entrez GeneID	627
Gene Name	BDNF
Gene Alias	MGC34632
Gene Description	brain-derived neurotrophic factor
Omim ID	113505 164230 209880 606788 607499
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the nerve growth factor family. It is induced by cortical neurons, and is necessary for survival of striatal neurons in the brain. Expression of this gene is reduced in both Alzheimer's and Huntington disease patients. This gene may play a role in the regulation of stress response and in the biology of mood disorders. Multiple transcript variants encoding distinct isoforms have been described for this gene. [provided by RefSeq
Other Designations	neurotrophin

Publication Reference

- Prevention of Early Alzheimer's Disease by Erinacine A-Enriched Hericium erinaceus Mycelia Pilot Double-Blind Placebo-Controlled Study.

  I-Chen Li, Han-Hsin Chang, Chuan-Han Lin, Wan-Ping Chen, Tsung-Han Lu, Li-Ya Lee, Yu-Wen Chen, Yen-Po Chen, Chin-Chu Chen, David Pei-Cheng Lin.

  Frontiers in Aging Neuroscience 2020 Jun; 12:155.

  Application: Quant, Human, Human blood

- Early enriched environment prevents cognitive impairment in an animal model of schizophrenia induced by MK-801: Role of hippocampal BDNF.

  Faatehi M, Basiri M, Nezhadi A, Shabani M, Masoumi-Ardakani Y, Soltani Z, Nozari M.

  Brain Research 2019 May; 1711:115.

  Application: ELISA, Rat, Hippocampus extracted

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- Increased Active OMI/HTRA2 Serine Protease Displays a Positive Correlation with Cholinergic Alterations in the Alzheimer's Disease Brain.

  Darreh-Shori T, Rezaeianyazdi S, Lana E, Mitra S, Gellerbring A, Karami A, Bogdanovic N, Lithner CU, Winblad B, Behbahani H.

  Molecular Neurobiology 2018 Oct; [Epub].

  Application: Quant, Human, Human brains

- Changes in miRNA-132 and miR-124 levels in non-treated and citalopram-treated patients with depression.

  Fang Y, Qiu Q, Zhang S, Sun L, Li G, Xiao S, Li X.

  Journal of Affective Disorders 2018 Feb; 227:745.

  Application: S-ELISA, Human, Plasma

- 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.

Pathway

- MAPK signaling pathway
- Neurotrophin signaling pathway

Disease

- Agoraphobia
- Akathisia
- Alcoholism

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- Alzheimer disease
- Amnesia
- Amphetamine-Related Disorders
- Angina
- Anorexia
- Anorexia Nervosa
- Anoxia
- Anxiety Disorders
- Arousal
- Asperger Syndrome
- Asthma
- Atherosclerosis
- Atrophy
- Attention
- Attention Deficit Disorder with Hyperactivity
- Autistic Disorder
- Avoidance Learning
- Basal Ganglia Diseases
- Bipolar Disorder
- Birth Weight
- Body Weight
- Borderline Personality Disorder
- Brain Injuries
- Brain Ischemia
- Bulimia
- Bulimia Nervosa

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- Cardiovascular Diseases
- Cerebral Infarction
- Cerebrovascular Accident
- Chromosome Aberrations
- Chronic Disease
- Cognition
- Cognition Disorders
- Conditioning
- Conditioning (Psychology)
- Coronary Artery Disease
- Cues
- Decision Making
- Depression
- Depressive Disorder
- Dermatitis
- Diabetes Complications
- Diabetes Mellitus
- Discrimination (Psychology)
- Disease Models
- Disease Progression
- Disease Susceptibility
- Dominance
- Dyskinesia
- Dysthymic Disorder
- Dystonic Disorders
- Eating Disorders

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- Edema
- Electroconvulsive Therapy
- Epilepsies
- Epilepsy
- Executive Function
- Extinction
- Failure to Thrive
- Fragile X syndrome
- Functional Laterality
- Galvanic Skin Response
- Gambling
- Genetic Predisposition to Disease
- Genetics
- Granuloma
- Hallucinations
- Headache
- Heroin Dependence
- Huntington disease
- Hypercholesterolemia
- Hyperphagia
- Hypertension
- Inhibition (Psychology)
- Intelligence Tests
- Intervertebral Disk Displacement
- Learning
- Leukoencephalopathies

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- Lewy Body Disease
- Lupus Erythematosus
- Lupus Vasculitis
- Memory
- Memory Disorders
- Mental Disorders
- Mental Processes
- Mental Recall
- Mental Retardation
- Mental Status Schedule
- Mercury Poisoning
- Metabolic Syndrome X
- Migraine Disorders
- Mitral Valve Prolapse
- MMPI
- Mood Disorders
- Motor Skills
- Multiple Sclerosis
- Multiple System Atrophy
- Myopia
- NARP
- Neoplasms
- Neuropsychological Tests
- Neurotic Disorders
- Obesity
- Obsessive-Compulsive Disorder

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- Obstetric Labor Complications
- Opioid-Related Disorders
- Orientation
- Osteoporosis
- Ovarian Failure
- Overweight
- Pain
- Panic Disorder
- Paranoid Disorders
- Parkinson disease
- Parkinsonian Disorders
- Pattern Recognition
- Perception
- Personality Assessment
- Personality Disorders
- Personality Inventory
- Personality Tests
- Pick Disease of the Brain
- Polycystic Ovary Syndrome
- Polyradiculoneuropathy

- Postmortem Changes
- Prenatal Exposure Delayed Effects
- Problem Solving
- Psychiatric Status Rating Scales
- Psychoacoustics

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- Psychological Tests
- Psychometrics
- Psychomotor Performance
- Psychoses
- Psychotic Disorders
- Puberty
- Reaction Time
- Recognition (Psychology)
- Recurrence
- Rett syndrome
- Reward
- Schizophrenia
- Schizophrenic Psychology
- Schizotypal Personality Disorder
- Sciatica
- Seizures
- Serial Learning
- Sleep Apnea
- Sleep Disorders
- Social Perception
- Startle Reaction
- Stress
- Stress Disorders
- Stroke
- Subarachnoid Hemorrhage
- Substance-Related Disorders

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- Syndrome
- Thinking
- Thrombophilia
- Tic Disorders
- Tobacco Use Disorder
- Torticollis
- Tourette Syndrome
- Verbal Learning
- Wechsler Scales
- Weight Gain
- Weight Loss
- Werner syndrome

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