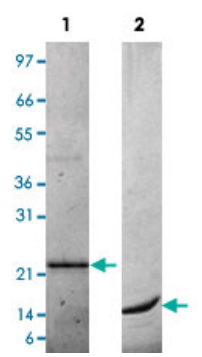
Bioactive

BDNF (Human) Recombinant Protein

Catalog # P4375 Size 10 ug

Applications



Lane 1: non-reducing conditions
Lane 2: reducing conditions

Specification

Product Description	Human BDNF (P23560) recombinant protein expressed in *Escherichia coli*.
Sequence	MHSDPARRGELSVCDSISEWVTAADKKTAVDMSGGTVTVLEKVPVSKGQLKQYFYETKCNPMG YTKEGCRGIDKRHWNSQCRTTQSYVRALTMDSKKRIGWRFIRIDTSCVCTLTIKRGR
Host	Escherichia coli
Theoretical MW (kDa)	27
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Endotoxin Level	< 0.1 EU/ug
Activity	The activity is determined by the dose-dependent induction of C6 cell proliferation. The expected ED_{50} for this effect is 1.3-2 ug/mL.
Quality Control Testing	1 ug/lane in 4-20% Tris-Glycine gel Stained with Coomassie Blue Lane 1: non-reducing conditions Lane 2: reducing conditions
Storage Buffer	No additive

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Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with sterilized water, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — BDNF

Entrez GeneID	627
Protein Accession#	P23560
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 c ortical neurons, and is necessary for survival of striatal neurons in the brain. Expression of this gen e is reduced in both Alzheimer's and Huntington disease patients. This gene may play a role in th e regulation of stress response and in the biology of mood disorders. Multiple transcript variants e ncoding distinct isoforms have been described for this gene. [provided by RefSeq
Other Designations	neurotrophin

Pathway

- MAPK signaling pathway
- Neurotrophin signaling pathway

Disease

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- Agoraphobia
- Akathisia
- Alcoholism
- 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

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- Brain Ischemia
- Bulimia
- Bulimia Nervosa
- 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

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- Dysthymic Disorder
- Dystonic Disorders
- Eating Disorders
- 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

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- Intervertebral Disk Displacement
- Learning
- Leukoencephalopathies
- 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

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- Neurotic Disorders
- Obesity
- Obsessive-Compulsive Disorder
- 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

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- Psychiatric Status Rating Scales
- Psychoacoustics
- 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

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- Stroke
- Subarachnoid Hemorrhage
- Substance-Related Disorders
- 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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