Datasheet for ABIN7319738

BDNF Protein

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Overview

Quantity:	100 µg
Target:	BDNF
Origin:	Human, Rat, Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Purpose:	Recombinant Human/Mouse/Rat BDNF Protein (Active)
Sequence:	His129-Arg247
Characteristics:	Recombinant Human/Mouse/Rat BDNF is produced by our E.coli expression system and the target gene encoding His129-Arg247 is expressed.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Immobilized Human BDNF at 2ug/mll(100 µl/well) can bind Human TrkB-His(Cat: PKSH033579). The ED50 of Human BDNF is 2.82 ug/ml .

Target Details

Target:	BDNF
Alternative Name:	BDNF (BDNF Products)

Target Details

Background:	Background: Brain-Derived Neurotrophic Factor (BDNF) is a member of the neurotrophin family. Along with other structurally related neurotrophic factors NGF, NT-3 and NT-4, BDNF binds with high affinity to the TrkB kinase receptor. It also binds with the LNGFR (for low-affinity nerve growth factor receptor, also known as p75). BDNF promotes the survival, growth and differentiation of neurons. It serves as a major regulator of synaptic transmission and plasticity at adult synapses in many regions of the CNS. BDNF expression is altered in neurodegenerative disorders such as Parkinson',s and Alzheimer',s disease. Synonym: Brain-Derived Neurotrophic Factor, BDNF, Abrineurin
Molecular Weight:	13 kDa
UniProt:	P23560
Pathways:	RTK Signaling, Synaptic Membrane, Feeding Behaviour, Dicarboxylic Acid Transport, Regulation of long-term Neuronal Synaptic Plasticity

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 250 mM NaCl, pH 7.2.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.