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Datasheet for ABIN7519712 BDNF Protein (His tag)

Overview

Quantity:	50 µg
Target:	BDNF
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This BDNF protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human/Mouse/Rat BDNF Protein
Sequence:	HSDPARRGEL SVCDSEWV TAADKKTAVD MSGGTVTVLE KVPVSKGQLK QYFYETKCNP MGYTKEGCRG IDKRHWNSQC RTTQSYVRAL TMDSKKRIGW RFIRIDTSCV CTLTIKRGR
Specificity:	His129-Arg247
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 1.0 EU/µg of the protein by LAL method.
Biological Activity Comment:	1.Measured by its binding ability in a functional ELISA.Immobilized Recombinant Human BDNF at 1 µg/mL (100 µL/well) can bind BDNF Rabbit mAb with a linear range of 0.4-2.15ng/mL.2.Measured by its binding ability in a functional ELISA.Immobilized Recombinant Human TrkB at 2 µg/mL (100 µL/well) can bind Recombinant Human BDNF with a linear range of 1.95-258 ng/mL.

Target Details

Target:	BDNF
Alternative Name:	BDNF (BDNF Products)
Background:	<p>Description: Brain-derived neurotrophic factor (BDNF) is a member of the nerve growth factor family. The neurotrophin family is comprised of at least four proteins including NGF, BDNF, NT-3, and NT-4/5. These secreted cytokines are synthesized as prepropeptides that are proteolytically processed to generate the mature proteins. BDNF cDNA encodes a 247 amino acid residue precursor protein with a signal peptide and a proprotein that are cleaved to yield the 119 amino acid residue mature BDNF. The amino acid sequence of mature BDNF is identical in all mammals examined. BDNF binds with high affinity and specifically activates the TrkB tyrosine kinase receptor .</p> <p>Name: ANON2, BULN2, BDNF, BULN2</p>
Gene ID:	627
UniProt:	P23560-1
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:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C, -80 °C
Storage Comment:	<p>Store the lyophilized protein at -20°C to -80 °C for long term.</p> <p>After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.</p>