

Recombinant Human Brain-derived Neurotrophic Factor, His-tagged

Cat. No. BDNF-231H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human brain-derived neurotrophic factor encoding the mature human BDNF (His129- Arg247) with 6 His tag on the N-Terminus was expressed in <i>E. Coli</i> . This protein was purified by Ni-NTA column. MW=16 KDa.
Species	Human
Source	E.coli
Description	BDNF belongs to NGF family. Monomers and homodimers bind to NTRK2/TRKB. The propeptide is N-glycosylated and glycosulfated. The pro-BDNF was converted into mature BDNF by plasmin. BDNF promotes the survival of neuronal populations that are all located either in the central nervous system or directly connected to it. It is a major regulator of synaptic transmission and plasticity at adult synapses in many regions of the CNS.
Sequence	Mature Human BDNF (His129-Arg247)HSDPARRGELSVCDISEWVTAADKKTAVDMSGGT TV VLEKVPVSKGQLKQFYETKCNPMGYTKEGCRGIDKRHWNSQCRTTQSYVRALTMDSKKRIGWRFIRIDTSCVCTLTIKRGR.
Purity	> 95% in SDS-PAGE.
Formulation	Lyophilized 100 µg human BDNF in 50 µl of TBS (20 mM Tris, 50mM NaCl, pH8.0). Carry free (Does NOT contain BSA).

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Reconstitution	Add 500µl deionized water or TBS to the vial to prepare a working stock solution at 200 µg/mL. Allow to set at least 30 minutes at 4°C, mix well.
Application	BA, ELISA.
Storage	Store lyophilized protein at -20°C to -70°C. Lyophilized protein is stable for up to 6 months from date of receipt at - 20°C to -70°C. Upon reconstitution, this protein can be stored at -20°C for up to a few weeks or at -70°C in a manual defrost freezer for long term storage (six months). Aliquot reconstituted protein to avoid repeated freeze / thaw cycles.

GENE INFORMATION

Gene Name	BDNF brain-derived neurotrophic factor [Homo sapiens]
Synonyms	BDNF;brain-derived neurotrophic factor; MGC34632; Abrineurin; neurotrophin; Brain-derived neurotrophic factor
Gene ID	627
mRNA Refseq	NM_001143805
Protein Refseq	NP_001137277
MIM	113505
UniProt ID	P23560
Chromosome Location	11p13

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Pathway	Huntington"s disease; MAPK signaling pathway; Neurotrophin signaling pathway
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Function	Growth factor activity
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