

Active Recombinant Human BDNF

Cat. No. BDNF-003H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human BDNF (P23560, 129 a.a. - 247 a.a.) partial recombinant protein expressed in Escherichia coli.
Species	Human
Source	Human
ProteinLength	129-247 a.a.
Description	Brain-derived neurotrophic factor, also known as BDNF, is a protein that, in humans, is encoded by the BDNF gene. BDNF is a member of the "neurotrophin" family of growth factors, which are related to the canonical "Nerve Growth Factor", NGF. Neurotrophic factors are found in the brain and the periphery.
Sequence	HS DPARRGELSV CDSISEWVTA ADKKTAVDMS GGTVTVLEKV PVSKGQLKQY FYETKCNPMG YTKEGCRGID KRHWNSQCRT TQSYVRALTM DSKKRIGWRF IRIDTSCVCT LTIKRGR
Theoretical MW (kDa)	14
Form	Lyophilized
Preparation Method	E. coli expression system
Purity	> 97% by SDS-PAGE and HPLC

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Endotoxin Level	< 0.1 ng/ug (1 EU/ug)
Activity	The ED50 was determined by the dose-dependent proliferation of rat C6 cells, and was found to be in the range of 0.5 ug/mL.
Application	SDS-PAGE
Storage Buffer	Lyophilized from citric acid, pH 5.7
Storage	Store at -20°C on dry atmosphere for 2 years. After reconstitution with deionized water, store at 4°C for 1 month or store at -20°C for 6 months. Aliquot to avoid repeated freezing and thawing.
Unitprot ID	P23560
Pathways	Huntington's disease; MAPK signaling pathway; Neurotrophin signaling pathway

GENE INFORMATION

Gene Name	BDNF brain-derived neurotrophic factor [Homo sapiens]
Official Symbol	BDNF
Synonyms	BDNF; brain-derived neurotrophic factor; MGC34632; abrineurin; neurotrophin; OTTHUMP00000232005; OTTHUMP00000232006; OTTHUMP00000232013; OTTHUMP00000232014; OTTHUMP00000232015; OTTHUMP00000232016; OTTHUMP00000232018; OTTHUMP00000232019; OTTHUMP00000232020; OTTHUMP00000232021; OTTHUMP00000232022; OTTHUMP00000232039; OTTHUMP00000232040; OTTHUMP00000232041; OTTHUMP00000232043
Gene ID	627

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mRNA Refseq	NM_001143806
Protein Refseq	NP_001137278
MIM	113505
Chromosome Location	11p13
Function	Growth factor activity
PDB rendering based on 1bnd	