

Recombinant Human Brain-derived Neurotrophic Factor

Cat. No. BDNF-334H Lot. No. (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	Sf21 Cells
Description	BDNF is a member of the NGF family of neurotrophic growth factors. Like other members of this family, BDNF supports neuron proliferation and survival. BDNF acts on certain neurons of the central nervous system and the peripheral nervous system, helping to support the survival of existing neurons and encourage the growth and differentiation of new neurons and synapses. In the brain, it is active in the hippocampus, cortex, and basal forebrain-areas vital to learning, memory, and higher thinking.
Molecular Weight	The predicted molecular weight of Recombinant Human BDNF is Mr 13.7 and 12.8 kDa (N-terminal truncated). However, the actual molecular weight as observed by migration on SDS Page is Mr 13.5 and 12.8 kDa (N-terminal truncated).
State Of Matter	Lyophilized.
Purity	>97% by SDS Page and analyzed by silver stain.
Endotoxin	<1.0 EU/g as determined by the LAL method.
Biological Activity	The biological activity of Human BDNF was determined by its ability to stimulate

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proliferation of the TrkB transfected cell line, Baf-TrkB. The expected ED50 for this effect is typically 3 - 10 ng/mL.

Storage And Stability

This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. 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
Pathway	Huntington's disease; MAPK signaling pathway; Neurotrophin signaling pathway
Function	Growth factor activity

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