

Active Recombinant Human BDNF Protein

Cat. No. BDNF-04H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BDNF Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Brain-derived neurotrophic factor (BDNF) is a nerve growth factor that binds two receptors, the low-affinity nerve growth factor receptor (LNGFR) and the tropomyosin receptor kinase B (TrkB), to support neuron growth and survival. BDNF expression in the hippocampus is essential for long-term memory storage and learning. Human, mouse, rat, and pig BDNF are cross-reactive.
Bio-activity	C6 cell proliferation, $\leq 2 \mu\text{g/mL}$; $\geq 5.0 \times 10^2$ units/mg
Molecular Mass	Noncovalent Homodimer, 13.6/27.3 kDa (120/240 aa)
AA Sequence	MHSDPARRGELSVCDSEWVTAADKKTAVDMSGGTVTVLEKVPVSKGQLKQYFY ETKCNPMGYTKEGCRGIDKRHWNSQCRTTQSYVRALTMDSKKRIGWRFIRIDTSCV CTLTIKRGR
Endotoxin	≤ 1 EUs/ μg , Kinetic LAL
Purity	$\geq 95\%$, Reducing and Non-Reducing SDS PAGE
Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied.

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	1 month when stored at 4 centigrade after reconstituting as directed. 3 months when stored at -20 to -80 centigrade after reconstituting as directed.
Storage	Storage Prior to Reconstitution: -20 centigrade
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
Reconstitution	Sterile water at 0.1 mg/mL
Shipping	Room temperature
Instructions	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

Gene Name	BDNF brain-derived neurotrophic factor [Homo sapiens (human)]
Official Symbol	BDNF
Synonyms	BDNF; brain-derived neurotrophic factor; neurotrophin; abrineurin; MGC34632;
Gene ID	627
mRNA Refseq	NM_001143805
Protein Refseq	NP_001137277

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MIM	113505
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UniProt ID	P23560
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