

Active Recombinant Human BDNF Protein

Cat. No. BDNF-298B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BDNF Protein without tag was expressed in CHO.
Species	Human
Source	CHO
Description	BDNF, also known as brain-derived neurotrophic factor and abrineurin, is a neurotrophin belonging to the NGF-beta family. It is expressed highly in the brain, and moderately in the heart, lung, skeletal muscle and placenta. BDNF signals through its high affinity receptor gp145/trkB to exert neurotrophic properties. It has been shown to be involved in the survival and differentiation of both the central and peripheral nervous system. Specifically, BDNF regulates synaptic transmission, axonal growth and path-finding, as well as dendritic growth and morphology.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 4 µg/mL, measured in a bioassay using C6 cells.
Molecular Mass	12-14kDa, observed by reducing SDS-PAGE.
AA Sequence	HSDPARRGELSVCDSEWVTAADKKTAVDMSGGTVTVLEKVPVSKGQLKQYFYET KCNPMGYTKEGCRGIDKRHWNSQCRTTQSYVRALTMDSKKRIGWRFIRIDTSCVCT LTIKRGR
Endotoxin	< 0.2 EU/µg, determined by LAL method.

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Purity	> 95% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant human BDNF remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, human BDNF should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/mL.

GENE INFORMATION

Gene Name	BDNF brain-derived neurotrophic factor [Homo sapiens]
Official Symbol	BDNF
Synonyms	BDNF; brain-derived neurotrophic factor; neurotrophin; abrineurin; MGC34632;
Gene ID	627
mRNA Refseq	NM_001143805
Protein Refseq	NP_001137277
MIM	113505
UniProt ID	P23560

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