

Recombinant Human BDNF protein

Cat. No. BDNF-258H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BDNF, transcript variant 2, was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene encodes a member of the nerve growth factor family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature protein. Binding of this protein to its cognate receptor promotes neuronal survival in the adult brain. Expression of this gene is reduced in Alzheimer's, Parkinson's, and Huntington's disease patients. This gene may play a role in the regulation of the stress response and in the biology of mood disorders.
Form	Lyophilized from a 0.2 M filtered solution of 20mM PB, 250mM NaCl, pH 7.2
Molecular Mass	52kD
AA Sequence	MAPMKEANIRGQGGLAYPGVRTHGTLVNGPKAGSRGLTSLADTFEHVIEELLDE DQKVRPNEENNKDADLYTSRVMSSQVPLEPPLLFLLEEKNYLDAANMSMRVRRH SDPARRGELSVCDSEWVTAADKKTAVDMSGGTVTVLEKVPVSKGQLKQYFYETK CNPMGYTKEGCRGIDKRHWNSQCRTTQSYVRALTMDSKKRIGWRFIRIDTSCVCTL TIKRGR
Endotoxin	Endotoxin level is <0.1 ng/g of protein (<1EU/g).

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Purity	>95% as determined by SDS-PAGE and Coomassie blue staining
Concentration	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
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_733928
MIM	113505
UniProt ID	P23560