

Recombinant Active Human BDNF Protein, His-tagged

Cat. No. BDNF-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant active human BDNF protein fused with a His-tagged (C-ter) was expressed in E. coli.
Species	Human
Source	E.coli
Description	The protein encoded by this gene is a member of the nerve growth factor family. It is induced by cortical neurons, and is necessary for survival of striatal neurons in the brain. Expression of this gene is reduced in both Alzheimer's and Huntington disease patients. This gene may play a role in the regulation of stress response and in the biology of mood disorders. Multiple transcript variants encoding distinct isoforms have been described for this gene.
Form	Powder
Bio-activity	Determined by its ability to induce proliferation in BaF3 mouse pro-B cells transfected with TrkB. The ED50 for this effect is < 2 ng/mL.
AA Sequence	MHSDPARRGELSVCDSEWVTAADKKTAVDMSGGTVTVLEKVPVSKGQLKQYFY ETKCNPMGYTKEGCRGIDKRHWNSQCRTTQSYVRALTMDSKKRIGWRFIRIDTSCV CTLTIKRGR
Endotoxin	Less than 0.1 EU/μg of the protein, as determined by the LAL test.

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Purity	> 98% (by SDS-PAGE)
Applications	SDS-PAGE
Notes	For laboratory research only, not for drug, diagnostic or other use.
Storage	Lyophilized protein should be stored at -20 centigrade. After reconstitution, aliquot and store at -20 or -80 centigrade for up to one month. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.
Storage Buffer	20 mM Sodium citrate (pH 3.5) and 0.2 M NaCl.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min at room temperature to make sure the protein is dissolved completely.

GENE INFORMATION

Gene Name	BDNF brain derived neurotrophic factor [Homo sapiens (human)]
Official Symbol	BDNF
Synonyms	BDNF; brain derived neurotrophic factor; ANON2; BULN2; brain-derived neurotrophic factor; abrineurin; neurotrophin
Gene ID	627
mRNA Refseq	NM_170735
Protein Refseq	NP_733931

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MIM	113505
UniProt ID	P23560
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