

Active Recombinant Human BDNF Protein, Tag Free

Cat. No. NTRK2-496H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human BDNF Protein (HEK293), premium grade is expressed from human 293 cells (HEK293). It contains AA His 129 - Arg 247 (Accession # P23560-1). This protein carries no "tag". Predicted N-terminus: His 129
Species	Human
Source	HEK293
ProteinLength	129-247 aa
Description	Brain-derived neurotrophic factor (BDNF) along with nerve growth factor (NGF), neurotrophin-3 (NT-3), and neurotrophin-4/5 (NT-4/5) are members of the neurotrophin family of trophic factors. The neurotrophins play essential roles in the development, survival, and function of a wide range of neurons in both the peripheral and central nervous systems. The neurotrophins interact with two cell surface receptors, the low affinity P75 receptor and the Trk family of high affinity tyrosine kinase receptors. NGF preferentially binds TrkA, BDNF and NT4/5 bind TrkB, and NT-3 binds TrkC (and TrkA to a lesser extent).
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Specificity	Sterility: Negative Mycoplasma: Negative
Bio-activity	Immobilized Human BDNF Protein (HEK293), premium grade at 1 µg/mL (100

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	μL/well) can bind Human TrkB, His Tag with a linear range of 2-78 ng/mL.
Molecular Mass	The protein has a calculated MW of 13.5 kDa. The protein migrates as 13-15 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 0.01 EU/μg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

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

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Protein Refseq	NP_001137277
MIM	113505
UniProt ID	P23560

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