

BDNF, Human

Cat. No.:	HY-P7116A
Synonyms:	rHuBDNF/Brain-derived neurotrophic factor; Abrineurin
Species:	Human
Source:	E. coli
Accession:	P23560 (H129-R247)
Gene ID:	627
Molecular Weight:	Approximately 13 kDa

PROPERTIES

AA Sequence	<p>H S D P A R R G E L S V C D S I S E W V T A A D K K T A V D M S G G T V T V L E</p> <p>K V P V S K G Q L K Q Y F Y E T K C N P M G Y T K E G C R G I D K R H W N S Q C</p> <p>R T T Q S Y V R A L T M D S K K R I G W R F I R I D T S C V C T L T I K R G R</p>
Biological Activity	The ED ₅₀ is <5 µg/ml measured by its ability to bind Human TrkB in functional ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 20 mM PB, 250 mM NaCl, pH 7.2.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O or PBS.
Storage & Stability	Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Recombinant Human BDNF/Brain-derived neurotrophic factor is a neurotrophin binding to the high-affinity tropomyosin-related receptor kinase B (TrkB) receptor to regulate neurodevelopmental processes, including neuronal survival, neuronal differentiation, and synaptic plasticity ^[1] . Brain-derived neurotrophic factor (BDNF) is one of the most abundant neurotrophins in the mammalian central nervous system that promotes neuronal survival and differentiation. BDNF plays crucial roles in the cardiovascular system ^[2] .
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REFERENCES

[1]. Li M, et al. Recombinant human brain-derived neurotrophic factor prevents neuronal apoptosis in a novel in vitro model of subarachnoid hemorrhage. *Neuropsychiatr Dis Treat.* 2017 Apr 3;13:1013-1021.

[2]. Hang P, et al. Brain-derived neurotrophic factor attenuates doxorubicin-induced cardiac dysfunction through activating Akt signalling in rats. *J Cell Mol Med.* 2017 Apr;21(4):685-696.

Caution: Product has not been fully validated for medical applications. For research use only.

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