

Overview

Synonyms	brain-derived neurotrophic factor, abrineurin
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.
Species	Human
Source	CHO
Biological Activity	ED ₅₀ <4µg/ml, measured in a bioassay using C6 cells.
Sequence	HSDPARRGEL SVCDSESEWV TAADKKTAVD MSGGTVTVLE KVPVSKGQLK QYFYETKCNP MGYTKEGCRG IDKRHWNSQC RTTQSYVRAL TMDSKKRIGW RFIRIDTSCV CTLTIKRGR

Properties

Measured Molecular Weight	12-14kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	<0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant human BDNF remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, human BDNF should be stable up to 1 week at 4°C or up to 2 months at -20°C.
Note	For research use only

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