


Human BDNF protein

Cat #: PRP110400

Size: 5µg/20µg

Product Information

	Product Name: Human BDNF protein		
REF	Catalog Number: PRP110400	LOT	Lot Number: Refer to product label
	Purity: > 95 % as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: CHO Stable Cells
	Shipping: The product is shipped at ambient temperature.		

Background: BDNF is a member of the nerve growth factor family. It is highly expressed in hippocampus, amygdala, cerebral cortex and cerebellum. It also can be detected in heart, lung, skeletal muscle, testis, prostate and placenta. BDNF is induced by cortical neurons, and is necessary for survival of striatal neurons in the brain. During development, BDNF promotes the survival and differentiation of selected neuronal populations of the peripheral and central nervous systems. It participates in axonal growth, pathfinding and in the modulation of dendritic growth and morphology. It functions as the major regulator of synaptic transmission and plasticity at adult synapses in many regions of the CNS. The versatility of BDNF is emphasized by its contribution to a range of adaptive neuronal responses including long-term potentiation (LTP), long-term depression (LTD), certain forms of short-term synaptic plasticity, as well as homeostatic regulation of intrinsic neuronal excitability.

Sequence: Amino acid sequence derived from human BDNF (P21237) (Met1-Arg249) was expressed and its mature form was purified. The mature form of human, mouse, rat, cynomolgus and canine BDNF sequences are identical.

Protein length: The recombinant mature form of human BDNF consists of 119 amino acids and predicts a molecular mass of 13.5 KDa.

Formulation: Lyophilized from sterile PBS.

Storage Instructions: Lyophilized Human BDNF protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized Human BDNF protein using the buffer we provided not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

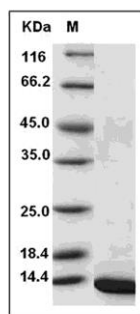


Fig. SDS-PAGE analysis of Human BDNF protein.

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