



Human BDNF peptide (DAG338)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
Species	Human
Conjugate	Unconjugated
Applications	The ED ₅₀ as determined by the dose dependent induction of AChE (acetylcholine esterase) in rat basal forebrain primary septal culture is 50ng/ml. Each laboratory should determine an optimum working titer for use in its particular application. Other applications include the measurement of BDNF in rat and human brain tissue, and the measurement of BDNF in rat and human plasma.
Format	Purified, Lyophilized. Reconstitute using sterile deionized water to a concentration \geq 100 μ g/ml. Further dilutions can be made in other aqueous buffers.
Concentration	1 mg/ml (OD _{280nm} , E _{0.1%} = 1.6) (prior to lyophilization)
Buffer	Lyophilized from 20mM Sodium citrate buffer, pH 5.0
Preservative	None
Storage	2-8°C short term, -20°C long term

BACKGROUND

Introduction	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's 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 different isoforms have been found for this gene.
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variants encoding distinct isoforms have been described for this gene. [provided by RefSeq, Jan 2009]

Keywords BDNF; brain-derived neurotrophic factor; ANON2; BULN2; abrineurin; neurotrophin;

GENE INFORMATION

Entrez Gene ID [627](#)

UniProt ID [P23560](#)
