

Datasheet: PHP213

Description:	RECOMBINANT HUMAN BDNF
Name:	BDNF
Other names:	BRAIN-DERIVED NEUROTROPHIC FACTOR
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	10 µg

Product Details

Applications This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.abdserotec.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Functional Assays	■			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified recombinant protein - lyophilised
Reconstitution	Reconstitute with 100ul distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. AbD Serotec recommend that the vial is gently mixed after reconstitution.
Preparation	Purified recombinant BDNF expressed in <i>E.coli</i>
Preservative Stabilisers	None present
Endotoxin Level	<1EU/ug
Approx. Protein Concentrations	0.1mg/ml
External Database Links	<p>UniProt: P23560 BDNF_HUMAN Related reagents</p> <p>Entrez Gene: 627 BDNF Related reagents</p>

Product Information BDNF (brain-derived neurotrophic factor) is a potent neurotrophin and member of the NGF-beta family, secreted from dense core vesicles, which promotes the growth, differentiation and survival of neurons within, or directly connected to, the central nervous system (CNS).

BDNF signals through binding to the high affinity receptor trkB, and also binds to the low affinity neurotrophin receptor LNGFR. Studies have shown the involvement of BDNF in the modulation of short-term synaptic function and in the formation of long-term memory, and reduced levels of BDNF are seen in patients with Alzheimer's and Huntington disease.

Molecular Weight	27.0kD (119 amino acid homodimer)
Activity	Determined by its ability to stimulate the proliferation of rat C6 cells. The expected ED ₅₀ for this effect is 0.5-1.0 µg/ml.
Purity	>98% by SDS PAGE and HPLC analysis
Storage	Prior to reconstitution store at +4°C. After reconstitution store at -20°C. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	3 months from date of reconstitution.
Health And Safety Information	Material Safety Datasheet Documentation #10268 available at: http://www.abdserotec.com/uploads/MSDS/10268.pdf
Regulatory	For research purposes only

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