

## Datasheet: PHP213

**BATCH NUMBER 159543**

<b>Description:</b>	RECOMBINANT HUMAN BDNF
<b>Name:</b>	BDNF
<b>Other names:</b>	BRAIN-DERIVED NEUROTROPHIC FACTOR
<b>Format:</b>	Rec. Protein
<b>Product Type:</b>	Recombinant Protein
<b>Quantity:</b>	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.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified recombinant protein - lyophilized
<b>Reconstitution</b>	Reconstitute with 100 µl distilled water. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.
<b>Preparation</b>	Purified recombinant BDNF expressed in <i>E.coli</i>
<b>Preservative Stabilisers</b>	None present
<b>Carrier Free</b>	Yes
<b>Endotoxin Level</b>	< 1.0 EU/ug
<b>Approx. Protein Concentrations</b>	0.1 mg/ml after reconstitution

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**External Database****Links****UniProt:**[P23560](#)[Related reagents](#)**Entrez Gene:**[627](#)

BDNF

[Related reagents](#)

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**Product Information**

Brain-derived neurotrophic factor (BDNF) 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.

BDNF signals through binding to the high affinity receptor trkB, and also binds to the low affinity neurotrophin receptor LNGFR. BDNF is involved 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 ([Girota et al. 2022](#)).

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**Protein Molecular Weight**

27.0 kDa (119 amino acid homodimer)

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**Activity**

Determined by its ability to stimulate the proliferation of rat C6 cells. The expected ED<sub>50</sub> for this effect is 0.5-1.0 µg/ml.

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**Purity**

&gt;98% by SDS PAGE and HPLC analysis

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**Storage**

Prior to reconstitution store at -20°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.

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**Guarantee**

Guaranteed for 3 months from the date of reconstitution or until the date of expiry, whichever comes first. Please see label for expiry date.

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**Health And Safety Information**

Material Safety Datasheet documentation #10268 available at:  
<https://www.bio-rad-antibodies.com/SDS/PHP213>  
10268

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**Regulatory**

For research purposes only

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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