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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Recombinant Human BDNF protein (His tag)

Catalog Number:PDEH100216



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

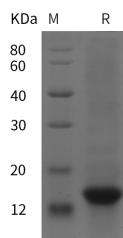
## Description

<b>Synonyms</b>	Brain-Derived Neurotrophic Factor;BDNF;Abrineurin
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	His 129-Arg 247
<b>Accession</b>	P23560
<b>Calculated Molecular Weight</b>	13.0 kDa
<b>Observed molecular weight</b>	15 kDa
<b>Tag</b>	N-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	Please contact us for more information.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

The precursor form of Brain-Derived Neurotrophic Factor (pro-BDNF) interacts preferentially with the pan-neurotrophin receptor p75 (p75NTR) and vps10p domain-containing receptor sortilin and induces neuronal apoptosis; whereas mature BDNF selectively binds with high affinity to the TrkB kinase receptor and promotes the survival; growth and differentiation of neurons. As proneurotrophins and mature neurotrophins elicit opposite biological effects; Pro-BDNF cleavage in the neuronal system is regulated in a specific and cell-context dependent manner. Pro-BDNF plays important role in negative regulation of neurotrophic actions in the brain.

## For Research Use Only

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