

# Recombinant Human BDNF protein(His tag)

Catalog Number:PDMH100043



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

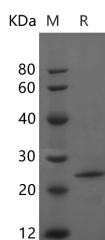
## Description

|                                    |                    |
|------------------------------------|--------------------|
| <b>Synonyms</b>                    | Abrineurin;ProBDNF |
| <b>Species</b>                     | Human              |
| <b>Expression Host</b>             | HEK293 Cells       |
| <b>Sequence</b>                    | Met1-Arg247        |
| <b>Accession</b>                   | P23560             |
| <b>Calculated Molecular Weight</b> | 26 kDa             |
| <b>Observed molecular weight</b>   | 26 kDa             |
| <b>Tag</b>                         | C-His              |

## Properties

|                       |                                                                                                                                                                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 85 % 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.<br>Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual.          |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.                                                                                                                                                                          |

## Data



> 85 % as determined by reducing SDS-PAGE.

## Background

Important signaling molecule that activates signaling cascades downstream of NTRK2. During development, promotes the survival and differentiation of selected neuronal populations of the peripheral and central nervous systems. Participates in axonal growth, pathfinding and in the modulation of dendritic growth and morphology. 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.

## For Research Use Only

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