

## Recombinant human BDNF protein

### Summary:

Cat: AC84293

[Name] : BDNF

[Derived From] : E coli

[Uniprot] : P23560

[Mol Mass] : 28kDa

[Gene ID] : 627

[Amino Acid] : 1-247aa

[Full Name] : brain-derived neurotrophic factor

[Tag] : With a 6xHis tag at the N/C-terminus.

[ Species Reactivity] : Human Mouse Rat (Bovine Chicken Dog Horse Pig Snake)

[Application] : Immunology research

[Purification] : NI-NTA affinity purification

[Purity] : ≥85% by SDS-PAGE.

[Concentration] : 1mg/ml by SDS-PAGE.

[Endotoxin] : Not measured

[Bioactive] : NO

[Storage] : Reconstituted protein solution can be stored at 4-7°C for 1-2 weeks, stored at < -20°C for 1 year.

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[Formulation] : Powder: Lyophilized from a 0.2  $\mu$ m filtered solution of 2-8M Urea, 20mM Tris-HCl, 150mM NaCl, 1mM DTT, PH7.2-8.0.

[Reconstitution] : Reconstituted protein solution can be diluted with distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. (It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/ml. Dissolve the lyophilized protein in distilled water.)

**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.

**Verified picture:**

