

## BDNF, Human/Mouse/Rat, Recombinant

货号：PCK083

### 产品信息

|      |                                                                                                                                                                          |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 别名   | ANON2, BULN2                                                                                                                                                             |
| 物种   | Human/Mouse/Rat                                                                                                                                                          |
| 表达宿主 | E.coli                                                                                                                                                                   |
| 序列信息 | MHSDPARRGELSVCDSEWVTAADKKTAVDMSGGTVTVLEKVPVSKGQL<br>KQYFYETKCNPMGYTKEGCRGIDKRHWNSQCRTTQSYVRALTMDSKKRIG<br>WRFIRIDTSCVCTLTIKRGR with polyhistidine tag at the C-terminus. |
| 检索号  | P23560.1(Human), P21237.1(Mouse), P23363.1(Rat)                                                                                                                          |
| 分子量  | 14.45 kDa                                                                                                                                                                |
| 标签   | His-tag at the C-terminus                                                                                                                                                |
| 生物活性 | Measure by its ability to induce proliferation in BaF3 cells transfected with TrkB. The ED50 for this effect is <2 ng/mL.                                                |

### 产品特性

|     |                                                                                                                                                                                                                                                                                                                            |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 纯度  | >98% as determined by SDS-PAGE. Ni-NTA chromatography                                                                                                                                                                                                                                                                      |
| 内毒素 | <0.1 EU per 1 µg of the protein by the LAL method.                                                                                                                                                                                                                                                                         |
| 保存  | Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10% FBS, 5% HSA or 5% trehalose solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months. |
| 运输  | Ambient temperature or ice pack.                                                                                                                                                                                                                                                                                           |
| 制剂  | The protein was lyophilized from a 0.2 µm filtered solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 3.5.                                                                                                                                                                                                           |



## 复融

It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100  $\mu\text{g/mL}$ . Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

## 背景介绍

BDNF, also known as Brain-derived neurotrophic factor, is encoded by the BDNF Gene in human. BDNF is a member of the neurotrophin family of growth factors, which are related to the canonical nerve growth factor. Neurotrophic factors are found in the brain and the periphery. 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.

## SDS-PAGE

