

# CHAMOT

**重组人/小鼠/大鼠脑源性神经营养因子 /Recombinant BDNF, Human/Mouse/Rat, Animal-Free**

CM135-5HP

CM135-20HP

CM135-100HP

CM135-500HP

CM135-1000HP



CHAMOT

乔默®生物

*Specialize In Cytokines*

# CONTENT

1 产品简介

2 产品使用

3 产品储存/运输

4 实验数据展示

5 文献引用

## 重组人/小鼠/大鼠脑源性神经营养因子 /Recombinant BDNF, Human/Mouse/Rat, Animal-Free

|      |           |            |             |             |              |
|------|-----------|------------|-------------|-------------|--------------|
| 产品编号 | CM135-5HP | CM135-20HP | CM135-100HP | CM135-500HP | CM135-1000HP |
| 规格   | 5 µg      | 20 µg      | 100 µg      | 500 µg      | 1 mg         |

### 产品简介

#### 背景描述

Brain-derived neurotrophic factor (BDNF) is a member of neurotrophin family that not only primarily expressed in hippocampus, amygdala, cerebral cortex, hypothalamus and cerebellum but also has been detected in blood platelets and in circulating plasma. BDNF is a 27.8 kDa protein containing 247 residues, which plays a critical role in regulating synaptic transmission and plasticity in various region of the CNS. Additionally, BDNF can acts as a modulator in the long-term potentiation of memory-related modifications in hippocampal synaptic transmission.

#### 别称

brain-derived neurotrophic factor, ANON2, BULN2

#### 蛋白编码

P23560(Human), P21237(Mouse), P23363(Rat)

#### 分子量

The protein has a calculated MW of 14.45 kDa. The protein migrates as 14 kDa under reducing condition (SDS-PAGE analysis).

#### 表达系统

Escherichia coli

#### 纯度

>98% as determined by SDS-PAGE.

#### 生物活性

Measure by its ability to induce proliferation in BaF3 cells transfected with TrkB. The ED<sub>50</sub> for this effect is <2 ng/mL.

#### 内毒素检测

<0.1 EU per 1 µg of the protein by the LAL method.

#### 蛋白序列

MHSDPARRGELSVCDSEWVTAADKKTAVDMSGGTVTVLEKVPVSKGQLKQYFYETKCNPM  
GYTKEGCRGIDKRHWNSQCRTTQSYVRALTMDSKKRIGWRFIRIDTSCVCTLTIKRGR with  
polyhistidine tag at the C-terminus.

#### 产品形式

The protein was lyophilized from a 0.2 µm filtered solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 3.5. If you have any concerns or special requirements, please confirm with us.

#### 产品应用

Cell Culture

## 产品使用

1. Before opening, centrifuge at 3000 rpm for 5 mins.

### 2. Initial Reconstitution

- Reconstitute the Lyophilized Protein in sterile H<sub>2</sub>O to a concentration of 100-200 µg/mL.
- Then, incubate it at room temperature for at least 20 mins to ensure sufficient dissolution.

Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

- Store at 2°C to 8°C for up to 1 week.

### 3. Extended Storage

- After the initial reconstitution, further dilute the reconstituted protein in a buffer containing a carrier protein or stabilizer (e.g., 0.1% BSA, 10% FBS, 5% HSA, or 5% trehalose solution). The final concentration is not less than 10 µg/mL.

- Prepare aliquots (≥20 µl).
- Store at -20°C or -80°C for 3 to 6 months.

Avoid repeated freeze-thaw cycles.

## 产品储存/运输

**Lyophilized Protein:** Store at -20°C for 1 year.

### 储存

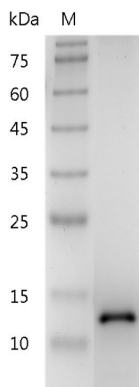
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**Extended Storage:** Store at -20°C or -80°C for 3 to 6 months with a carrier protein or stabilizer.

### 运输

Blue Ice

## 实验数据展示



## 文献引用

- BDNF Alleviates Microglial Inhibition and Stereotypic Behaviors in a Mouse Model of Obsessive-Compulsive Disorder. Front Mol Neurosci. 2022 Jul 12;15:926572. (IF 6.261)(Human/Mouse/Rat BDNF)

For Research Use or Further Manufacturing Only

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