

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 产品储存/运输

3 产品使用

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	规格
CM135-5HP	5 ug
CM135-20HP	20 ug
CM135-100HP	100 ug
CM135-500HP	500 ug
CM135-1000HP	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 ED₅₀ 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

MHSDPARRGELSVCDSEWVTAADKKTAVDMSGGTVTVLEKVPVSKGQLKQYFYETKCNPMGYTKEGCRGIDKRHWNSQCRTTQSYVREALTMDSKKRIGWRFIRIDTSCVCTLTIKRGR 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

产品储存/运输

储存

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 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 -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

运输

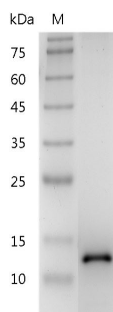
Blue Ice

产品使用

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 100 µg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

实验数据展示

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SDS- PAGE analysis of recombinant human/mouse/rat BDNF

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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