

CHAMOT

**重组人神经生长因子 β /Recombinant beta-NGF,
Human, Animal-Free**

CM141-20HP

CM141-100HP

CM141-500HP

CM141-1000HP



CHAMOT

乔默®生物

Specialize In Cytokines

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重组人神经生长因子 β /Recombinant beta-NGF, Human, Animal-Free

产品编号	CM141-20HP	CM141-100HP	CM141-500HP	CM141-1000HP
规格	20 μ g	100 μ g	500 μ g	1 mg

产品简介

背景描述

Nerve Growth Factors (NGF) is critical for the development and maintenance of the sympathetic and sensory neuron systems. NGF has been demonstrated as a complex that consists of three polypeptides named α , β and γ subunits. Among then, β subunit, which known as beta-NGF is a 26.9 kDa protein containing 241 residues that involve in neuronal survival and differentiation. Besides, beta-NGF also acts as a ligand to TRKA receptor, which indispensable for the differentiation and development of pain and temperature sensing neurons.

别称

nerve growth factor-beta, β -Nerve Growth Factor, NGF- β

蛋白编码

P01138

分子量

The protein has a calculated MW of 14.43 kDa. The protein migrates as 11 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 TF-1 cells proliferation. The ED₅₀ for this effect is <0.7 ng/mL. The specific activity of recombinant human beta-NGF is > 1 x 10⁶ IU/mg.

内毒素检测

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

蛋白序列

MSSSHPIFHRGEFSVCDSVSVWVGDKTTATDIKGKEVMVLGEVNINNSVFKQYFFETKCRDPN
PVDSGCRGIDSKHWNSYCTTTHTFVKALTMGKQAAWRFIRIDTACVCVLSRKAVRRA with
polyhistidine tag at the C-terminus.

产品形式

The protein was lyophilized from a 0.2 μ m filtered solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 4.5. 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 H₂O 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.

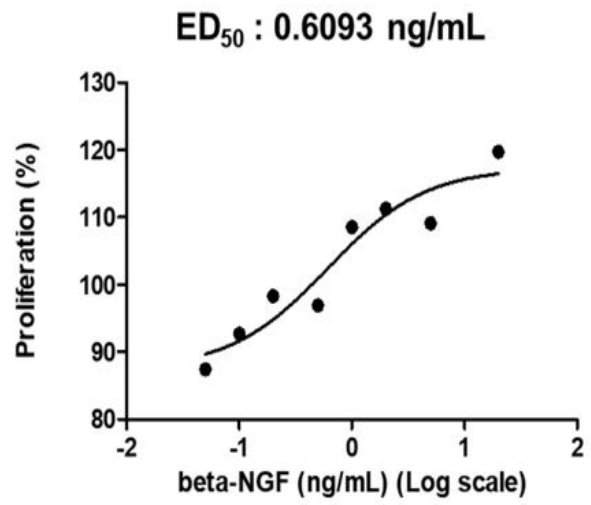
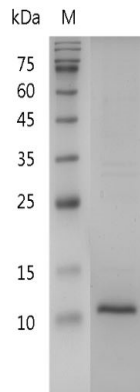
3. Extended Storage

- 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

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



SDS-PAGE analysis of recombinant human beta-
NGF

Human beta-NGF, His Tag, E. coli induced TF-1 cell proliferation,
with the ED₅₀ at 0.6093 ng/mL.

For Research Use or Further Manufacturing Only

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