# β-NGF/NGF/NGFB (Ser122-Arg239, Cells), Human, Recombinant

## Cat. No.：GPCK071

## 产品信息

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| 物种 | Human |
| 表达宿主 | Human Cells |
| 序列信息 | Ser122-Arg239 |
| 检索号 | P01138 |
| 分子量 | 13.3 kDa |
| 有效期 | 12 months |
| 生物活性 | Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 0.04-0.4 ng/mL. |

## 产品特性

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| 内毒素（EU/μg） | < 0.1 |
| 保存 | Lyophilized protein should be stored at -5~-20℃, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at -5~-20℃ for 3 months. |
| 运输 | Ambient temperature or ice pack. |
| 制剂 | Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 250 mM NaCl, pH 7.0. |
| 复溶 | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/mL. Dissolve the lyophilized protein in sterile water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |

## 背景介绍

Human β-Nerve Growth Factor (β-NGF) was initially isolated in the mouse submandibular gland. It is composed of three non-covalently linked subunits α, β, and γ; it exhibits all the biological activities ascribed to NGF. It is structurally related to BDNF, NT-3 and NT-4 and belongs to the cysteine-knot family of Growth Factors that assume stable dimeric structures. B-NGF is a neurotrophic factor that signals through its Receptor β-NGF, and plays a crucial role in the development and preservation of the sensory and sympathetic nervous systems. B-NGF also acts as a growth and differentiation factor for B lymphocytes and enhances B-cell survival. These results suggest that β-NGF is a pleiotropic Cytokine, which in addition to its neurotropic activities may have an important role in the regulation of the immune system. Human β-NGF shares 90% sequence similarity with mouse Protein and shows cross-species reactivity.

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