

Recombinant Human Beta-NGF (Mammalian)

Catalog No : PMK2169

Known As: Beta-Nerve Growth Factor; Beta-NGF; NGF; NGFB; β -NGF

PROPERTIES

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| Description | Recombinant Human Beta-Nerve Growth Factor is produced by our Mammalian expression system and the target gene encoding Ser122-Arg239 is expressed |
| Accession | P01138 |
| Formulation | Lyophilized from a 0.2 μ m filtered solution of 20mM PB, 250mM NaCl, pH 7.0. |
| Size | 10 μ g/50 μ g/500 μ g/1mg |
| Purity | > 95% |
| Endotoxin | < 1 EU/ μ g as determined by LAL test. |
| Predicted Mol Mass | 13.3 KDa |
| Apparent Mol Mass | 14 KDa, reducing conditions |
| Reconstitution | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μ g/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below. |
| Storage | Lyophilized protein should be stored at $\leq -20^{\circ}\text{C}$, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8 $^{\circ}\text{C}$ for 2-7 days. Aliquots of reconstituted samples are stable at $\leq -20^{\circ}\text{C}$ for 3 months. |
| Background | 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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