

beta-NGF (Nerve growth factor-beta), Human

v. 231001

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| Catalog number | C01154-5UG / C01154-20UG / C01154-100UG |
| Package | 5 µg / 20 µg / 100 µg |
| Description | Nerve growth factor (NGF) is a neurotrophic factor and neuropeptide primarily involved in the regulation of growth, maintenance, proliferation, and survival of certain target neurons. NGF-β acts through its receptor β-NGFR and is involved in the development and maintenance of the sensory and sympathetic nervous systems. NGF-β also is also involved in the growth, differentiation, and survival of B lymphocytes. Human, mouse and rat proteins show cross-reactivity. |
| Source | <i>Escherichia coli</i> |
| Sequence | MSSSHPIFHRGEFSVCDSVSVWVGDKTTATDIKGKEVMVLGEVNINNSVFKQY FFETKCRDPNPVDSGCRGIDSKHNSYCTTTHTFVKALTM DGKQA AWR FIRID TACVCLSRKAVRRA with polyhistidine tag at the C-terminus |
| Endotoxin level | <0.1 EU per 1 µg of the protein by the LAL method. |
| Activity | Measure by its ability to induce TF-1 cells proliferation. The ED ₅₀ for this effect is <0.7 ng/mL. The specific activity of recombinant human beta-NGF is > 1 x 10 ⁶ IU/mg. |
| Purity | >98% as determined by SDS-PAGE. |
| Form | Lyophilized |
| Storage Buffer | Lyophilized from a 0.2 µm filtered solution containing 20 mM sodium citrate and 0.2 M NaCl, pH 3.5. |
| Reconstitution | It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved. |
| Stability & Storage | This product is stable after storage at: <ul style="list-style-type: none"> • -20°C for 12 months in lyophilized state from date of receipt. • -20°C or -80°C for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles. |



SDS-PAGE analysis of recombinant human beta-NGF

For research use only.