

PRODUCT INFORMATION

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

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	MSSSHPIFHRGEFSVCDSVSVWVGDKTTATDIKGKEVMVLGEVNINNSVFKQYF FETKCRDPNPVDSGCRGIDSKHWNSYCTTHTFVKALTM DGKQAAWR FIRIDT ACVCVLSRKAVRRA 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. Ni-NTA chromatography
Formulation	The protein was lyophilized from a solution containing 20 mM sodium citrate, 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 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Storage	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
Note	Please use within one month after protein reconstitution.



SDS-PAGE analysis of recombinant human beta-NGF

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