

Recombinant Human β -NGF / Beta-Nerve Growth Factor, Animal Free & Carrier Free

Cat #: C-CYP356

Size: 20 μ g, 100 μ g, 500 μ g, 1mg

Shipping: Blue Ice

Product Overview

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 crossreactivity.

Product Information

Source: *Escherichia Coli*.

Purity: >98% as determined by SDS-PAGE. Ni-NTA chromatography.

Biological Activity: 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.

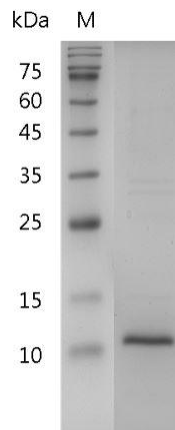
Endotoxin: <0.1EU per 1 μ g of the protein by the LAL method.

Amino acid sequence:

MSSSHPIFHRGEFSVCDSVSVVVGDKTTATDIKQKEVMVLGEVNINNSVFKQYFFETKCRDPNPVDSGCRGIDSKHWNSYCTTHTFVKA

LTMDGKQAAWRFIRIDTACVCLSRKAVRRA with polyhistidine tag at the C-terminus.

Formulation: Lyophilized from a sterile filtered aqueous solution in 20mM sodium citrate, 0.2 M NaCl, pH 3.5.



SDS-PAGE analysis of recombinant human beta-NGF

Usage Method

1. Before opening, it is recommended to centrifuge at 3000-3500 rpm for 5 minutes.
2. Reconstitute to a concentration of 0.1-1.0 mg/mL in sterile distilled H₂O. Allow the solution to sit at room temperature for at least 20 minutes to ensure complete dissolution. Avoid vigorous vortexing.
3. The reconstituted solution can be stored at 2-8°C for up to 1 week.
4. For long-term storage, it is recommended to further dilute the solution with a carrier protein (such as 0.1% BSA, 10% FBS, or 5% HSA) to a concentration of no less than 10 µg/mL and aliquot for storage at -20°C to -80°C for 3 to 6 months. If serum-free experiments are required, a 5% trehalose solution can be used as a carrier instead. Avoid repeated freeze-thaw cycles.

Storage

Physical Appearance	Storage	Stability
Lyophilized powder	-20°C to -80°C	1 year
Reconstitution (initial)	2°C to 8°C	Less than 1 week
Reconstitution (after dilution)	-20°C to -80°C	3 to 6 months

Note

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.