

Human recombinant beta-NGF (Nerve growth factor-beta) protein, AF

Catalog Number: PROTP01138-5

Overview

Product Name	Human recombinant beta-NGF (Nerve growth factor-beta) protein, AF
Description	Nerve Growth Factors (NGF) is critical for the development and maintenance of the sympathetic and sensory neuron systems. NGF has been demonstrated as a complex that consists of three polypeptides named alpha, beta and gamma subunits. Among them, beta subunit, which known as beta-NGF is a 26.9 kDa protein containing 241 residues that involve in neuronal survival and differentiation. Besides, beta-NGF also acts as a ligand to TRKA receptor, which indispensable for the differentiation and development of pain and temperature sensing neurons.
Size	20ug,100ug,500ug
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 3.5. If you have any concerns or special requirements, please confirm with us.

Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

Purity

>98% as determined by SDS-PAGE.

Molecular weight

The protein has a calculated MW of 14.43 kDa. The protein migrates as 11 kDa under reducing condition (SDS-PAGE analysis).

Activity

Measure by its ability to induce TF-1 cells proliferation. The ED₅₀ for this effect is 1 x 10⁻⁷ IU/mg.

Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

Amino Acid Sequence

MSSSHPIFHRGEFSVCDSVSVWVGDKTTATDIKGKEVMVLGEVNINNSVFKQYFFETKCRDPNPVDSGCRGIDSKHWNSYCTTTHTFVKALTM DGKQ
AAWRFIRIDTACVCVLSRKAVRRA with polyhistidine tag at the C-terminus.

Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Usage

Boster's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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