

β-NGF/NGF/NGFB/NGF-β, Mouse, Recombinant

Cat. No. : PCK072

General Information

Synonyms	β-Nerve Growth Factor,NGF-β
Species	Mouse
Expression host	E.coli
Sequence	MSSTHPVFHMGESVCDSSVSVWVGDKTTATDIKGKEVTVLAEVNINNSVFRQYFFETKCRASN PVESGCRGIDSKHWNSYCTTTHTFVKALTTDEKQAAWRFIRIDTACVCVLSRKATRRG with polyhistidine tag at the C-terminus.
Accession	Q6LDU8
Tag	His-tag at the C-terminus
Mol mass	14.41 kDa
Expiration date	12 months
Bio activity	Measure by its ability to induce TF-1 cells proliferation. The ED50 for this effect is < 1ng/mL. The specific activity of recombinant mouse beta-NGF is > 1 × 10 ⁶ IU/mg.

Product feature

Purity	> 98% as determined by SDS-PAGE. Ni-NTA chromatography.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°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 -5~-20°C or -80°C for 3-6 months.
Shipping	Ice bag
Formulation	The protein was lyophilized from a 0.2 μm filtered solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 4.5.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Background

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.

SDS-PAGE

