

Recombinant Mouse Mature Beta-nerve growth factor/NGFB Protein

Catalog No.: RP00667 Recombinant

Sequence Information

Species Gene ID Swiss ProtMouse 18049 P01139

Tags

No tag

Synonyms

Beta-Nerve Growth Factor; Beta-NGF; NGF; NGFB

Product Information

Source Purification *E. coli* ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

12.4 kDa 13 kDa

Endotoxin

 $< 0.1 \; \text{EU/}\mu\text{g}$ of the protein by LAL method.

Formulation

Lyophilized from a 0.2 µm filtered solution of 50mM NaAc,150mM NaCl,pH5.5.

Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

NGF is the first member discovered in the Neurotrophin family, which includes brain-derived neurotrophicfactor (BDNF), neurotrophin-3 (NT-3), and neurotrophin-4 (NT-4). These proteins belong to the cysteine-knotfamily of growth factors that assume stable dimeric structures. Mouse beta -NGF is a homodimer of two 120amino acid polypeptides. It shares approximately 90% homology at the amino acid level with human beta -NGFand 95.8% with rat beta -NGF. NGF signaling has been shown to play an important role in neuroprotection andrepair. β -NGF acts as a growth and differentiation factor for B lymphocytes, and enhances B-cell survival. It is apotent neurotrophic factor that signals through its receptor β -NGFR, and plays a crucial role in thedevelopment and preservation of the sensory and sympathetic nervous systems.

Basic Information

Description

Recombinant Mouse Beta-nerve growth factor/NGFB Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Ser122-Gly241) of Mouse Beta-nerve growth factor/NGFB (Accession #P01139) fused with no tag.

Bio-Activity

Measured in a cell proliferation assay using TF-1 Human erythroleukemic cells. The ED $_{50}$ for this effect is 0.63-2.53 ng/mL, corresponding to a specific activity of $3.95\times10^5\sim1.58\times10^6$ units/mg.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

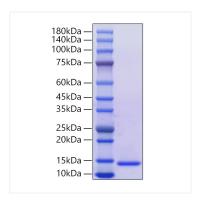
Avoid repeated freeze/thaw cycles.

Operational Notes

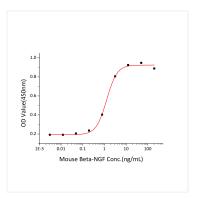
For your safety and health, please wear a lab coat and disposable gloves for handling.

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Validation Data



Recombinant Mouse Beta-nerve growth factor/NGFB Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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