

Recombinant Mouse Mature Beta-nerve growth factor/NGFB Protein

Catalog No.: RP00667

Sequence Information

Species **Gene ID**
Mouse 18049

Swiss Prot **Tags**
P01139 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 EU/μg 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

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

Activity

Measured in a cell proliferation assay using TF-1 Human erythroleukemic cells. The ED₅₀ for this effect is 0.63-2.53 ng/mL, corresponding to a specific activity of 3.95×10⁵~1.58×10⁶ units/mg.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

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

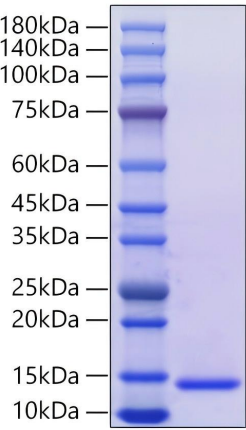
Contact

☎ | 400-999-6126

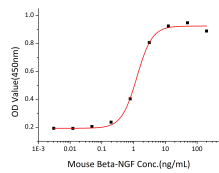
✉ | cn.market@abclonal.com.cn

🌐 | www.abclonal.com.cn

Validation Data



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



Measured in a cell proliferation assay using TF-1 Human erythroleukemic cells. The ED₅₀ for this effect is 0.63-2.53 ng/mL, corresponding to a specific activity of 3.95×10⁵~1.58×10⁶ units/mg.