

RP00667

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Recombinant Mouse Mature Beta-nerve growth factor/NGFB Protein

Catalog No.: RP00667

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
<I>E. coli</I>	18049	P01139

Tags

No tag

Synonyms

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

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.

Product Information

Source	Purification
<I>E. coli</I>	$\geq 95\%$ as determined by SDS-PAGE.

Endotoxin

< 0.1 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.2 μ m filtered solution of 50mM NaAc, 150mM NaCl, pH 5.5.

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 freeze-thaw cycles.

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

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.

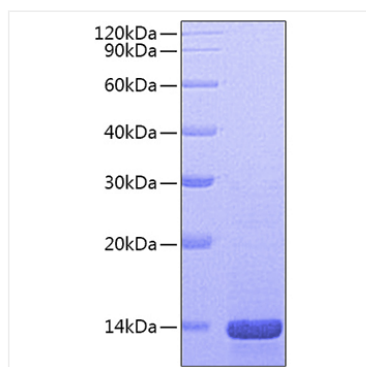
Contact



www.abclonal.com

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

Validation Data



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