重组小鼠神经生长因子β(β-NGF)

Beta-Nerve Growth Factor(β-NGF),Mouse,Recombinant

Cat. No.: MA1323-1 Size: 10μg

Source: E.coli

Description: Recombinant Mouse Beta-Nerve Growth Factor is produced by our E.coli expression system and the target gene encoding Met130-Arg239 is expressed.

Accession: P01139

Known As: Beta-Nerve Growth Factor; Beta-NGF; NGF; NGFB;β-NGF

Predicted Mol Mass: 12.4 KDa

Apparent Mol Mass: 13 KDa, reducing conditions

Endotoxin: < 1 EU/μg as determined by LAL test.

Formulation: Lyophilized from a 0.2 μm filtered solution of 20mM PB, 200mM NaCl, pH 8.0.

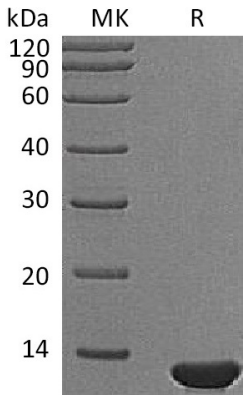
Reconstitution:
Always centrifuge tubes before opening.Do not mix by vortex or pipetting.
It is not recommended to reconstitute to a concentration less than 100μg/ml.
Dissolve the lyophilized protein in distilled water.
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

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

Storage:
Lyophilized protein should be stored at ≤ -20°C, stable for one year after receipt.
Reconstituted protein solution can be stored at 2-8°C for 2-7 days.
Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.

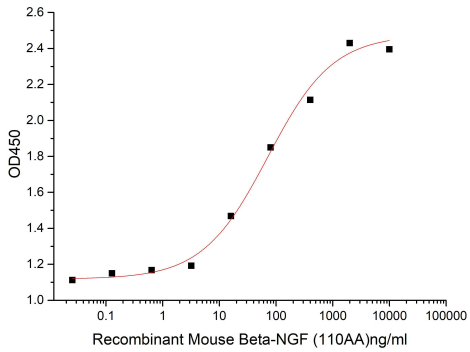
Background: NGF is the first member discovered in the Neurotrophin family, which includes brain-derived neurotrophic factor (BDNF), neurotrophin-3 (NT-3), and neurotrophin-4 (NT-4). These proteins belong to the cysteine-knot family of growth factors that assume stable dimeric structures. Mouse beta -NGF 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.

Purity-SDS-PAGE:



Greater than 95% as determined by reducing SDS-PAGE.

Bioactivity-Cell Based Assay:



Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 68.52 ng/ml.

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