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# Recombinant Mouse β-NGF/NGFB Protein

Catalog Number: PKSM041189

Note: Centrifuge before opening to ensure complete recovery of vial contents.

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**Species** Mouse

**Source** E.coli-derived Mouse β-NGF/NGFB protein Ser122-Gly241, with an C-terminal His

Calculated MW 14.4 kDa
Observed MW 11-17 kDa
Accession P01139

**Bio-activity** Measure by its ability to induce TF-1 cells proliferation. The  $ED_{50}$  for this effect is

<1ng/mL. The specific activity of recombinant mouse beta-NGF is >1 x  $10^6$  IU/mg.

## **Properties**

**Purity** > 98 % as determined by reducing SDS-PAGE.

**Endotoxin** < 0.1 EU per µg of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80

°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation** Lyophilized from sterile 20 mM sodium citrate, 0.2 M NaCl, pH 4.5.

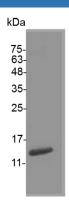
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

Please refer to the specific buffer information in the printed manual.

**Reconstitution** Please refer to the printed manual for detailed information.

#### Data



> 98 % as determined by reducing SDS-PAGE.

## **Background**

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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.  $\beta$ -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  $\beta$ -NGFR, and plays a crucial role in the development and preservation of the sensory and sympathetic nervous systems.

For Research Use Only

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