A Reliable Research Partner in Life Science and Medicine

# Recombinant Mouse β-NGF/NGFB Protein

Catalog Number: PKSM041188

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 Met130-Arg239

Calculated MW12.4 kDaObserved MW13 kDaAccessionP01139

**Bio-activity** Measured in a cell proliferation assay using TF- 1 human erythroleukemic cells. The

 $ED_{50}$  for this effect is 68.52 ng/ml.

## **Properties**

**Purity** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin**  $< 1.0 \text{ EU} \text{ per } \mu\text{g} \text{ of the protein as determined by the LAL method.}$ 

**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.

ShippingThis product is provided as lyophilized powder which is shipped with ice packs.FormulationLyophilized from a 0.2 μm filtered solution of 20mM PB, 200mM NaCl, pH 8.0.

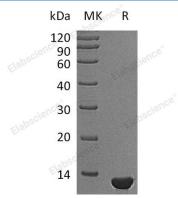
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

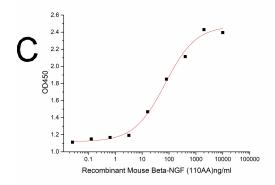
Please refer to the specific buffer information in the printed manual.

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

#### Data



> 95 % as determined by reducing SDS-PAGE.



Measured in a cell proliferation assay using TF-  $\,^1$  human erythroleukemic cells. The ED $_{50}$  for this effect is 68.52 ng/ml.

#### Background

# Elabscience®

### Elabscience Biotechnology Co., Ltd.

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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.