

## Product datasheet for **TP728298M**

### Recombinant beta-NGF (Nerve growth factor-beta), Mouse

#### Product data:

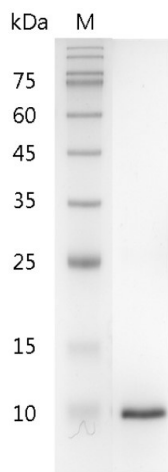
<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant beta-NGF (Nerve growth factor-beta), Mouse
<b>Species:</b>	Mouse
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	MSSTHPVFHMGFEFSVCDSVSVWVGDKTTATDIKGKEVTVLAEVNINNSVFRQYFFETKCRASNPVESGCR GIDSKHWNSYCTTTHTFVKALTTDEKQAAWRFIRIDTACVCVLSRKATRRG with polyhistidine tag at the C-terminus.
<b>Tag:</b>	His Tag (C-term)
<b>Predicted MW:</b>	The protein has a calculated MW of 14.41 kDa. The protein migrates as 11-17 kDa under reducing condition (SDS-PAGE analysis).
<b>Purity:</b>	>98% as determined by SDS-PAGE.
<b>Buffer:</b>	The protein was lyophilized from a 0.2 µm filtered solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 4.5.
<b>Bioactivity:</b>	Measure by its ability to induce TF-1 cells proliferation. The ED <sub>50</sub> for this effect is <1 ng/mL. The specific activity of recombinant mouse beta-NGF is > 1 x 10 <sup>6</sup> IU/mg.
<b>Endotoxin:</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Reconstitution Method:</b>	Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 100 µg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.
<b>Applications:</b>	Cell culture
<b>Storage:</b>	Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.
<b>UniProt ID:</b>	<a href="#">P01139</a>
<b>Synonyms:</b>	β-Nerve Growth Factor, NGF-β



[View online »](#)

**Summary:**

Beta-Nerve Growth Factors (Beta-NGF) is a 27 kDa cytokine with 241 amino acid residues. Beta-NGF belongs to neurotrophin family, and acts as neurotrophic factors. It's composed of alpha, beta, gamma subunits, and the beta subunit is related to its biological activity. Beta-NGF binds to p75 neurotrophin receptor and Trk receptor and their function is about cell death and survival, respectively.

**Product images:**

SDS- PAGE analysis of recombinant mouse beta-NGF