

## Product datasheet for **TP726901**

### Ngf Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Mouse $\beta$ -Nerve Growth Factor/ $\beta$ -NGF (Met130-Arg239)
Species:	Mouse
Expression cDNA Clone or AA Sequence:	Met130-Arg239
Buffer:	Lyophilized from a 0.2 um filtered solution of 20mM PB,200mM NaCl,pH8.0.
Note:	Recombinant Mouse beta-Nerve Growth Factor is produced by our E.coli expression system and the target gene encoding Met130-Arg239 is expressed.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Stability:	12 months from date of despatch
Locus ID:	18049
UniProt ID:	<a href="#">P01139</a>
Synonyms:	Beta-Nerve Growth Factor; Beta-NGF; NGF; NGFB
Summary:	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.



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