

## Mouse $\beta$ -NGF protein

Cat #: PRP1966

Size: 5 ug/20 ug/100 ug/1mg

### Product Information

	<b>Product Name:</b> Mouse $\beta$ -NGF protein		
<b>REF</b>	<b>Catalog Number:</b> PRP1966	<b>LOT</b>	<b>Lot Number:</b> Refer to product label
	<b>Purity:</b> > 98 % as determined by SDS-PAGE		
	<b>Storage:</b> Store at -20°C		<b>Preparation method:</b> <i>E.coli</i>
	<b>Shipping:</b> The product is shipped at ambient temperature.		

**Background:** Nerve growth factor (NGF) influences the survival and differentiation of a variety of neuronal and nonneuronal cells. The actions of this polypeptide result from binding to specific cell surface receptors which are present as both high and low affinity sites. Although both types of receptor bind NGF only the high affinity form is capable of signal transduction. Cross-linking studies with  $^{125}\text{I}$ -NGF have shown that the high affinity receptor of Rat PC12 cells forms an Mr 158,000 complex with NGF while the low affinity receptor forms an Mr 100,000 complex. Full length cDNA clones for both the human and Rat NGF receptor genes have been produced and sequenced, revealing greater than 90% homology between the two species.

**Sequence:** Amino acid sequence derived from Mouse  $\beta$ -NGF protein (P01139)(Met121—Gly241)was expressed .

**Protein length:** The protein has a calculated MW of 14.41 kDa.

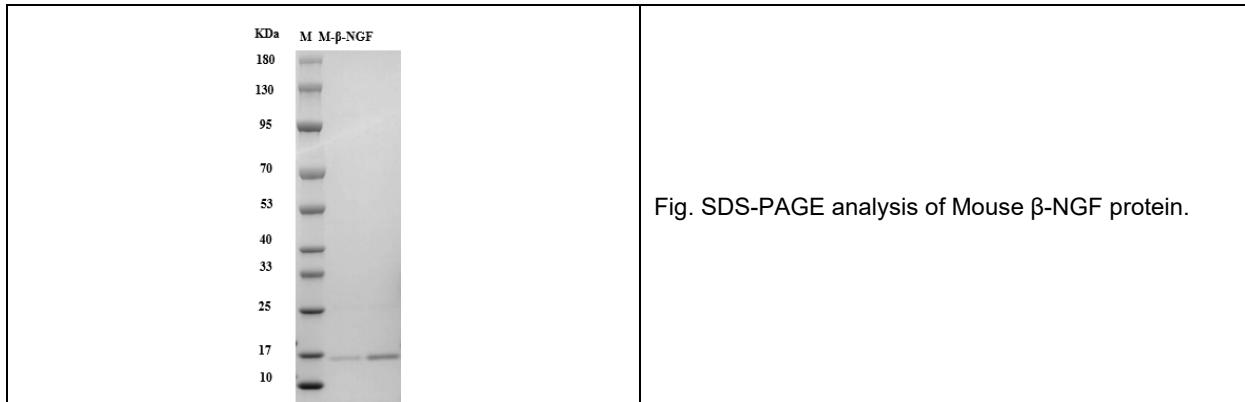
**Biological Activity:** Measure by its ability to induce TF-1 cells proliferation. The ED50 for this effect is < 0.03ng/mL. The specific activity of recombinant Mouse  $\beta$ -NGF is >  $3.33 \times 10^7$ U/mg.

**Endotoxin:** <0.1 EU per 1  $\mu$ g of the protein by the LAL method.

**Formulation:** Liquid in from sterile 20 mM Tris, 150 mM NaCl, pH 8.0, 5% Glycerol,1 mM EDTA.

**Storage Instructions:** The protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (5% HSA , 10%FBS or 0.1%BSA). Please prevent freeze-thaw cycles.

**Usage notes:** Always centrifuge tubes before opening. It is recommended to dilute the protein using the PBS buffer or Protein storage solution to working concentration.



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