


Mouse β -NGF protein, His tag (Animal-Free)

Cat #: PRP1143

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

Product Information

	Product Name: Mouse β -NGF protein, His tag (Animal-Free)		
REF	Catalog Number: PRP1143	LOT	Lot Number: Refer to product label
	Purity: > 98 % as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: E.coli
	Shipping: 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 ¹²⁵I-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 β -NGF protein (P01139)(Met121—Gly241) was expressed with 6×His tag at the C-terminus.

Protein length: The protein has a calculated MW of 14.41 kDa. The protein migrates as 11-17 kDa under reducing condition (SDS-PAGE analysis).

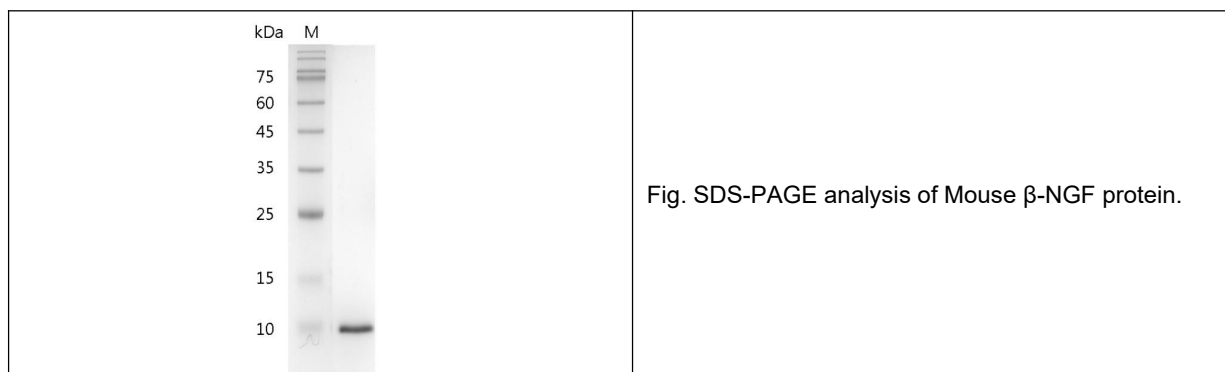
Biological Activity: Measure by its ability to induce TF-1 cells proliferation. The ED₅₀ for this effect is <1ng/mL. The specific activity of recombinant Mouse β -NGF is > 1 × 10⁶U/mg.

Endotoxin: <0.1 EU per 1 μ g of the protein by the LAL method.

Formulation: The protein was lyophilized from a 0.2 μ m filtered solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 4.5.

Storage Instructions: Lyophilized 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 reconstitute the lyophilized recombinant Mouse β -NGF protein to a concentration of 0.1-1 mg/mL in sterile ddH₂O, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously



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