

Product datasheet for **TP728298L**

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

Product data:

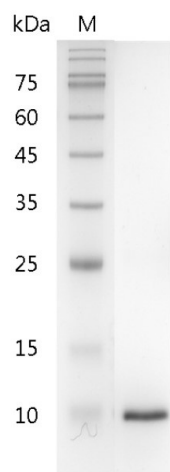
Product Type:	Recombinant Proteins
Description:	Recombinant beta-NGF (Nerve growth factor-beta), Mouse
Species:	Mouse
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MSSTHPVFHMGFEFSVCDVSVVWVGDKTTATDIKGKEVTVLAEVNINNSVFRQYFFETKCRASNPVESGCR GIDSKHWNSYCTTTHTFVKALTTDEKQAAWRFIRIDTACVCLSRKATRRG with polyhistidine tag at the C-terminus.
Tag:	His Tag (C-term)
Predicted MW:	The protein has a calculated MW of 14.41 kDa. The protein migrates as 11-17 kDa under reducing condition (SDS-PAGE analysis).
Purity:	>98% as determined by SDS-PAGE.
Buffer:	The protein was lyophilized from a 0.2 µm filtered solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 4.5.
Bioactivity:	Measure by its ability to induce TF-1 cells proliferation. The ED ₅₀ for this effect is <1 ng/mL. The specific activity of recombinant mouse beta-NGF is > 1 x 10 ⁶ IU/mg.
Endotoxin:	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution Method:	Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H ₂ 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.
Applications:	Cell culture
Storage:	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.
UniProt ID:	P01139
Synonyms:	β-Nerve Growth Factor, NGF-β



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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