

OriGene Technologies, Inc.

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Product datasheet for TP728149M

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

Product data:

Description:Recombinant beta-NGF (Nerve growth factor-beta), HumanSpecies:HumanExpression Host:E. coliExpression cDNA cloop or AA Sequence:MSSSHPIFHRGEFSVCDSVSWWGDKTTATDIKGKEVMVLGEVNINNSVFKQYFFETKCRDPNPVDSGCR dDSKHWNSYCTTHTFVKALTMDGKQAAWRFIRIDTACVCVLSRKAVRRA with polyhistidine tag at the C-terminus.Tag:His Tag (C-term)Predicted MW:The protein has a calculated MW of 14.43 kDa. The protein migrates as 11 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 3.5.Bioactivity:Measure by its ability to induce TF-1 cells proliferation. The EDso for this effect is <0.7 ng/mL The specific activity of recombinant human beta-NGF is > 1 x 10° IU/mg.Fendotoxin:Cell cultureApplications:Cell cultureStorage:Usophilized 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. D Not Vortex! Vigorous shaking may impair the biological activity of the protein.Applications:Cell cultureStorage:Usophilized 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. D Not Vortex! Vigorous shaking may impair the biological activity of the protein.Applications:Cell cultureStorage:Usophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution at room	Product Type:	Recombinant Proteins
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Synonyms: β-Nerve Growth Factor, NGF-β	UniProt ID:	<u>P01138</u>
	Synonyms:	β-Nerve Growth Factor, NGF-β



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	Recombinant beta-NGF (Nerve growth factor-beta), Human – TP728149M
Summary:	Nerve Growth Factors (NGF) is critical for the development and maintenance of the sympathetic and sensory neuron systems. NGF has been demonstrated as a complex that consists of three polypeptides named α , β and γ subunits. Among then, β subunit, which known as beta-NGF is a 26.9 kDa protein containing 241 residues that involve in neuronal survival and differentiation. Besides, beta-NGF also acts as a ligand to TRKA receptor, which indispensable for the differentiation and development of pain and temperature sensing

neurons.

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