

Recombinant Protein Technical Manual Recombinant Mouse β -NGF/NGFB Protein (aa 130-239)(Active) **RPES3849**

Product SKU: RPES3849	Size: 10µg
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Species: Mouse

Expression host: E. coli

Uniprot: P01139

Protein Information:	
Molecular Mass:	12.4 kDa
AP Molecular Mass:	12 kDa
Tag:	
Bio-activity:	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 0.5.5 ng/ml.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU per μg as determined by the LAL method.
Storage:	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation:	Lyophilized from a 0.2 μm filtered solution of 20mM Tris,200mM NaCl,pH8.0.
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	Cell Culture
Synonyms:	Beta-Nerve Growth Factor; Beta-NGF; NGF; NGFB

Sequence: Met130-Arg239

Background:

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. β -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 β -NGFR, and plays a crucial role in the development and preservation of the sensory and sympathetic nervous systems.