



Recombinant Protein Technical Manual
Recombinant Human β -NGF/NGFB Protein (with pro
peptide)(Active)
RPES0265

Product Data:

Product SKU: RPES0265

Size: 10 μ g

Species: Human

Expression host: E. coli

Uniprot: P01138

Protein Information:

Molecular Mass: 25 kDa

AP Molecular Mass: 30 kDa

Tag:

Bio-activity: Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 32697 pg/mL.

Purity: > 95% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per μ g as determined by the LAL method.

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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 μ m filtered solution of 20mM PB, 250mM NaCl, pH 7.2.

Reconstitution: Please refer to the printed manual for detailed information.

Application: Cell Culture

Synonyms: Beta-Nerve Growth Factor; Beta-NGF; NGF; NGFB

Immunogen Information:

Sequence: Glu19-Ala241

Background:

The precursor form of the nerve growth factor (proNGF) like its mature form is characterized by the cystin knot motif consisting of three cystine bridges, whereas proneurotrophins and mature neurotrophins elicit opposite biological effects. ProNGF functions preferentially via the complex of pan-neurotrophin receptor p75 (p75NTR) and vps10p domain-containing receptor sortilin inducing neuronal apoptosis and contributing to age- and disease-related neurodegeneration.