

Beta-NGF Protein, Mouse, Recombinant (HEK293)

General Information

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| Synonyms: | nerve growth factor (beta polypeptide);Ngfb;nerve growth factor (β polypeptide) |
| Protein Construction: | Ser122-Ala241 |
| Species: | Human |
| Expression Host: | HEK293 Cells |
| Accession: | P01138 |
| Molecular Weight: | 13.49 kDa (Predicted); 14-18 kDa (Due to glycosylation) |

QC Testing

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| Biological Activity: | Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is typically 0.2-2 ng/ml. (QC Test) Immobilized Human Beta-NGF, No Tag at 1 μ g/ml (100 μ l/well) on the plate. Dose response curve for Human TrkA, His Tag with the EC50 of 0.25 μ g/ml determined by ELISA. |
| Purity: | > 95% as determined by Bis-Tris PAGE |
| Endotoxin: | < 1.0 EU/ μ g of the protein as determined by the LAL method. |
| Formulation: | Lyophilized from 0.22 μ m filtered solution in 20 mM NaAc, 150 mM NaCl (pH 5.5). Normally 8% trehalose is added as protectant before lyophilization. |

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in 20mM NaAc, 150mM NaCl (pH 5.5). The product concentration should not be less than 100 μ g/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, Lyophilized powders are shipping with blue ice. Solutions are shipping with dry ice.

Protein Background

Nerve growth factor-beta (β -NGF) is a polypeptide growth factor that regulates survival, growth, and differentiation of specific peripheral and central neurons via its high-affinity receptor, tyrosine kinase receptor A (TrkA), and low-affinity receptor, p75 neurotrophin receptor (p75NTR).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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