

Recombinant Murine Nerve Growth Factor

#R00616

Size: 5 µg/100 µg/500 µg

Stability & Storage

Please use a manual defrost freezer and avoid repeated freeze-thaw cycles.

-Lyophilized protein should be stored at ≤ -20°C, stable for 12 months after receipt.

-Reconstituted protein solution can be stored at 2-8°C for 1-2 weeks.

-Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

Nerve growth factor beta (beta-NGF) is a neurotrophic factor that plays critical role in the development and maintenance of sensory and sympathetic neurons. The active form of human beta-NGF is a noncovalently disulfide-linked homodimer, which is secreted and signals through the low affinity nerve growth factor receptor (LNGFR) and the tropomyosin receptor kinase A (TrkA) to activate PI3K, Ras, and PLC signaling pathways.

AA Sequence

Ser122-Gly241, Accession # P01139

Reconstitution

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Reconstitute in sterile distilled water to a concentration of 0.1-1.0 mg/mL. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Product Specification

Species	Murine
Source	CHO Cells
Molecular Weight	Recombinant Murine beta-NGF Protein, a noncovalently-linked homodimer, each subunit containing 120 amino acid residues, has a predicted molecular mass of approximately 27.0 kDa.
Purity	> 98% by SDS-PAGE gel and HPLC analyses.
Biological Activity	Determined by the dose-dependent stimulation of the proliferation of human TF-1 cells. The expected ED ₅₀ is 1.0 ng/ml, corresponding to a specific activity of 1 × 10 ⁶ units/mg.

Formulation	Lyophilized from a 0.22 µm filtered solution of in PBS. See CoA for details.
Endotoxin	Less than 0.1 EU/µg of rMuβ-NGF as determined by LAL test.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.