

For Research Use Only. Not For Use In Diagnostic Procedures

Version 2.0

重组人神经生长因子β-NGF

Recombinant Human beta-Nerve Growth Factor



Do not eat



Cat.No. MNG9110 Lot.No : Refer to Vial
 Product Size : 10ug 50ug 500ug

Technical literature is available at: www.mesgenbio.com.
 E-mail MesGen Technical Services if you have questions
 on use of this system: tech@mesgenbio.com

Accession # : P01138

Known as : Beta-Nerve Growth Factor; Beta-NGF; NGF; NGFB

Description

Recombinant Human beta-Nerve Growth Factor is produced by our E.coli expression system and the target gene encoding Ser122-Ala241 is expressed.

Quality control

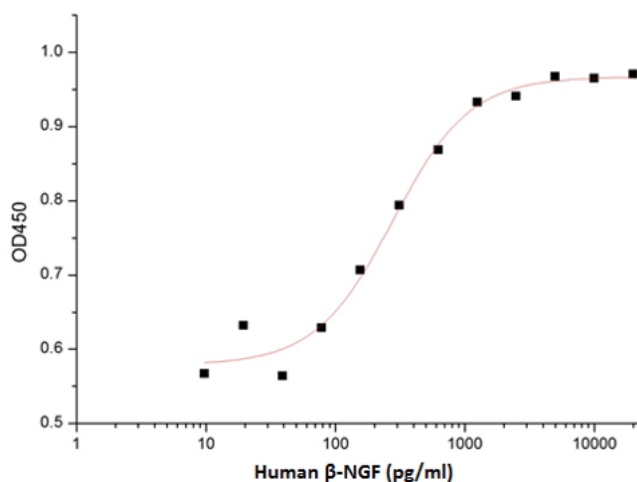
Greater than 95% as determined by reducing SDS-PAGE.

Endotoxin

Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.

Bioactivity

Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 0.03-0.3 ng/mL.



Background

Human β-Nerve Growth Factor (β-NGF) was initially isolated in the mouse submandibular gland. It is composed of three non-covalently linked subunits α, β, and γ; it exhibits all the biological activities ascribed to NGF. It is structurally related to BDNF, NT-3 and NT-4 and belongs to the cysteine-knot family of growth factors that assume stable dimeric structures. B-NGF is a neurotrophic factor that signals through its receptor β-NGF, and plays a crucial role in the development and preservation of the sensory and sympathetic nervous systems. B-NGF also acts as a growth and differentiation factor for B lymphocytes and enhances B-cell survival. These results suggest that β-NGF is a pleiotropic cytokine, which in addition to its neurotropic activities may have an important role in the regulation of the immune system. Human β-NGF shares 90% sequence similarity with mouse protein and shows cross-species reactivity.

Reconstitution

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Formulation

Lyophilized from a 0.2 μm filtered solution of PBS, PH7.4.

Storage condition

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.

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