

Recombinant Human β-NGF/NGFB Protein (aa 122-23, Human Cells)

Catalog No. PKSH033270

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

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

Species Human

Expression Host HEK293 Cells **Sequence** Ser122-Arg239

Accession P01138
Calculated Molecular Weight 13.3 kDa
Observed molecular weight 14 kDa
Tag None

Bioactivity Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The

ED50 for this effect is 0.04-0.4 ng/ml.

Properties

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

Endotoxin < 1.0 EU per μg of the protein as determined by the LAL method.

Storage Generally, 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 PB, 250mM NaCl, pH 7.0.

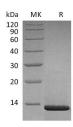
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Human β -Nerve Growth Factor (β -NGF) was initially isolated in the mouse submandibular gland. It is composed of three

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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.

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