A Reliable Research Partner in Life Science and Medicine

## Recombinant Human β-NGF/NGFB Protein

Catalog No. PKSH033269

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

### **Description**

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

SpeciesHumanExpression HostE.coli

Sequence Ser122-Ala241

Accession P01138
Calculated Molecular Weight 14.4 kDa
Observed molecular weight 11 kDa
Tag C-His

### **Properties**

**Purity** > 98 % as determined by reducing SDS-PAGE.

**Endotoxin** < 0.1 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 sterile 20 mM sodium citrate, 0.2 M NaCl, pH 3.5.

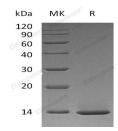
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

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



> 98 % as determined by reducing SDS-PAGE.

### **Background**

Human  $\beta$ -Nerve Growth Factor ( $\beta$ -NGF) was initially isolated in the mouse submandibular gland. It is composed of three non-covalently linked subunits  $\alpha$ ;  $\beta$ ; and  $\gamma$ ; 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.

#### For Research Use Only

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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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