

## Human Beta-NGF, His Tag, E. coli

<b>Catalog Number</b>	LDG129PHE
<b>Package</b>	5 µg / 20 µg / 100 µg / Customized package

For full product information, images and publications, please visit [our website](#).



### Specifications

#### Species of Origin

Human

#### Affinity Tag

His Tag (C-term)

#### Purity

>98% as determined by SDS-PAGE analysis.

#### Activity

Measure by its ability to induce TF-1 cells proliferation. The ED<sub>50</sub> for this effect is <0.7 ng/mL. The specific activity of recombinant human beta-NGF is > 1 x 10<sup>6</sup> IU/mg.

#### Form

Lyophilized

#### Expression System

Escherichia coli

#### Storage Buffer

Lyophilized from a 0.2 µm filtered solution containing 20 mM sodium citrate and 0.2 M NaCl, pH 4.5.

#### Molecular weight

The protein has a calculated MW of 14.43 kDa. The protein migrates as 11 kDa under reducing condition (SDS-PAGE analysis).

#### Endotoxin Level

<0.1 EU per 1 µg of the protein by the LAL method.

### Background

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### Background

Nerve Growth Factors (NGF) is critical for the development and maintenance of the sympathetic and sensory neuron systems. NGF has been demonstrated as a complex that consists of three polypeptides named  $\alpha$ ,  $\beta$  and  $\gamma$  subunits. Among them,  $\beta$  subunit, which known as beta-NGF is a 26.9 kDa protein containing 241 residues that involve in neuronal survival and differentiation. Besides, beta-NGF also acts as a ligand to TRKA receptor, which indispensable for the differentiation and development of pain and temperature sensing neurons.

### Uniprot ID

#P01138

### Synonyms

Nerve Growth Factors-Beta, Beta-NGF

### Sequence Note

Ser122-Ala241

## Instruction

### Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration of 200  $\mu$ g/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

### Stability & Storage

This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

### Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

## Image

### Tainan Headquarters

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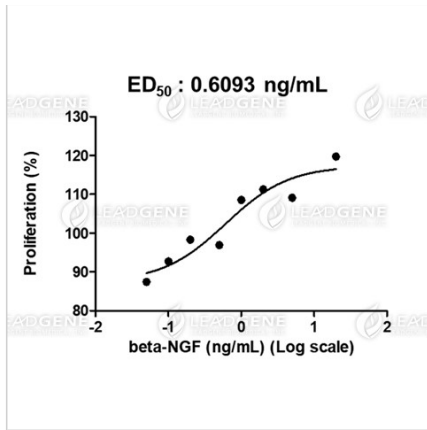
✉ [bd@leadgene.com.tw](mailto:bd@leadgene.com.tw)

### Innovation & Research Center

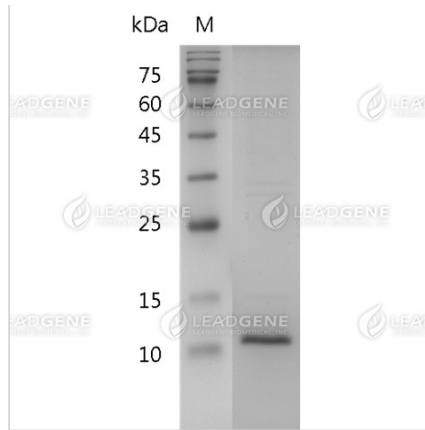
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Human Beta-NGF, His Tag, E. coli (LDG129PHE) induced TF-1 cell proliferation, with the ED50 at 0.6093 ng/mL.



SDS-PAGE analysis of recombinant human beta-NGF.

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