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Datasheet for ABIN2115490  
**NGFB Protein (AA 122-239)**

### Overview

Quantity:	50 µg
Target:	NGFB
Protein Characteristics:	AA 122-239
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant

### Product Details

Purpose:	Recombinant Human $\beta$ -Nerve Growth Factor/ $\beta$ -NGF (Ser122-Arg239, Human Cells)
Sequence:	SSSHPIFHRRG EFSVCDSVSV WVGDKTTATD IKGKEVMVLG EVNINNSVFK QYFFETKCRD PNPVDSGCRG IDSKHWNSYC TTTHTFVKAL TMDGKQAAGR FIRIDTACVC VLSRKAVR
Characteristics:	Recombinant Human $\beta$ -Nerve Growth Factor/ $\beta$ -NGF produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Pro99-Lys324) of Human $\beta$ -NGF.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

### Target Details

Target:	NGFB
Alternative Name:	beta-NGF ( <a href="#">NGFB Products</a> )

## Target Details

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**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. B-NGF is a neurotrophic factor that signals through its receptor  $\beta$ -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  $\beta$ -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  $\beta$ -NGF shares 90 % sequence similarity with mouse protein and shows cross-species reactivity.

Synonyms: Beta-Nerve Growth Factor, Beta-NGF, NGF, NGFB

**Molecular Weight:** 13.5 kDa

**UniProt:** [P01138](#)

**Pathways:** [NF-kappaB Signaling](#), [RTK Signaling](#), [Regulation of Cell Size](#)

## Application Details

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**Restrictions:** For Research Use only

## Handling

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**Format:** Lyophilized

**Reconstitution:** It is not recommended to reconstitute to a concentration less than 100  $\mu$ g/mL. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Buffer:** Lyophilized from a 0.2  $\mu$ m filtered solution of 20 mM PB, 250 mM NaCl, pH 7.0.

**Handling Advice:** Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

**Storage:** 4 °C/-20 °C/-80 °C

**Storage Comment:** 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.