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## Datasheet for ABIN7455640 NGFB Protein

### Overview

Quantity:	50 µg
Target:	NGFB
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant

### Product Details

Purpose:	Recombinant Human Beta-Nerve Growth Factor is produced by our Mammalian expression system and the target gene encoding Ser122-Arg239 is expressed.
Characteristics:	Extracellular Domain Protein
Purification:	Purified from cell culture supernatant by affinity chromatography
Purity:	Greater than 95 % as determined by reducing SDS-PAGE.

### Target Details

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

## Target Details

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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.

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Molecular Weight: 13.3 KDa

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UniProt: [P01138](#)

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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

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

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Storage: -20 °C,-80 °C

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Storage Comment: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).  
Lyophilized proteins are shipped at ambient temperature.

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Expiry Date: 12 months