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## Datasheet for ABIN7320297 NGFB Protein

### Overview

Quantity:	20 µg
Target:	NGFB
Origin:	Mouse
Source:	CHO Cells
Protein Type:	Recombinant
Biological Activity:	Active

### Product Details

Purpose:	Recombinant Mouse $\beta$ -NGF/Beta-NGF Protein (Active)
Sequence:	Ser 122-Gly 241
Characteristics:	A DNA sequence encoding the mature form of mouse NGF (NP_001106168.1) (Ser 122-Gly 241) was expressed, with an initial Met at the C-terminus.
Purity:	> 96 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 1-8ng/mL.

### Target Details

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

## Target Details

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**Background:** Background: Nerve growth factor (NGF) is important for the development and maintenance of the sympathetic and sensory nervous systems. NGF protein was identified as a large complex consisting of three non-covalently linked subunits,  $\alpha$ ,  $\beta$ , and  $\gamma$ , among which, the  $\beta$  subunit, called  $\beta$ -NGF (beta-NGF), was demonstrated to exhibit the growth stimulating activity of NGF protein. NGFB/beta-NGF gene is a member of the NGF-beta family and encodes a secreted protein which homodimerizes and is incorporated into a larger complex. NGF protein acts via at least two receptors on the surface of cells (TrkA and p75 receptors) to regulate neuronal survival, promote neurite outgrowth, and up-regulate certain neuronal functions such as mediation of pain and inflammation. In addition, previous studies indicated that NGF may also have an important role in the regulation of the immune system.

Synonym: Ngfb

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**Molecular Weight:** 13.5 kDa

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**NCBI Accession:** [NP\\_001106168](#)

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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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**Reconstitution:** Please refer to the printed manual for detailed information.

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**Buffer:** Lyophilized from sterile 20 mM NaAc, 150 mM NaCl, pH 5.5

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**Storage:** 4 °C, -20 °C, -80 °C

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**Storage Comment:** 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.