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## Datasheet for ABIN7520353 NGFB Protein (His tag)

### Overview

Quantity:	100 µg
Target:	NGFB
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This NGFB protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human Beta-NGF/NGF/NGFB Protein
Sequence:	EPHSESNVPA GHTIPQAHWT KLQHSLDTAL RRARSAPAAA IAARVAGQTR NITVDPRLFK KRRLRSPRVL FSTQPPREAA DTQDLDFEVG GAAPFNRTHR SKRSSSHPIF HRGEFSVCDS VSVWVGDKTT ATDIKGKEVM VLGEVNINNS VFKQYFFETK CRDPNPVDSG CRGIDSKHWN SYCTTHTFTV KALTMDGKQA AWRFIRIDTA CVCVLSRKAV RRA
Specificity:	Glu19-Ala241
Purity:	> 92 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	<0.01EU/µg
Biological Activity Comment:	Recombinant Human NGF stimulates cell proliferation of the TF-1 human erythroleukemic cells. The ED <sub>50</sub> for this effect is 2.2-8.6 ng/mL, corresponding to a specific activity of 1.16x10 <sup>5</sup> -4.55x10 <sup>5</sup> units/mg.

## Target Details

Target:	NGFB
Alternative Name:	Beta-NGF/NGF/NGFB ( <a href="#">NGFB Products</a> )
Background:	<p>Description: NGF is a well-characterized neurotropic protein that plays a critical role in the development of sympathetic and some sensory neurons in the peripheral nervous system. In addition, NGF can also act in the central nervous system as a trophic factor for basal forebrain cholinergic neurons. NGF has also been shown to have biological effects on non-neuronal tissues. NGF is mitogenic for a factor?dependent human erythroleukemic cell line, TF-1. NGF has been found to increase the number of mast cells in neonatal rats and to induce histamine release from peritoneal mast cells. NGF will enhance histamine release and strongly modulate the formation of lipid mediators by basophils in response to various stimuli. NGF will also induce the growth and differentiation of human B lymphocytes as well as suppress apoptosis of murine peritoneal neutrophils. These results, taken together, suggest that NGF is a pleiotropic cytokine which, in addition to its neurotropic activities, may have an important role in the regulation of the immune system.</p> <p>Name: NGFB, HSN5, Beta-NGF</p>
Gene ID:	4803
UniProt:	<a href="#">P01138</a>
Pathways:	<a href="#">NF-kappaB Signaling</a> , <a href="#">RTK Signaling</a> , <a href="#">Regulation of Cell Size</a>

## Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Concentration:	0.43 mg/mL
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C, -80 °C

## Handling

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Storage Comment: Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.