Datasheet for ABIN7319222

NGFB Protein

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Overview

Quantity:	50 µg
Target:	NGFB
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Purpose:	Recombinant Human β-NGF/NGFB Protein (aa 122-23, Human Cells)(Active)
Sequence:	Ser122-Arg239
Characteristics:	Recombinant Human beta-Nerve Growth Factor is produced by our Mammalian expression system and the target gene encoding Ser122-Arg239 is expressed.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg 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 0.04-0.4 ng/ml.

Target Details

Target:	NGFB
Alternative Name:	beta-NGF/NGFB (NGFB Products)

Target Details

Background:	Background: Human β-Nerve Growth Factor (β-NGF) was initially isolated in the mouse submandibular gland. It is composed of three non-covalently linked subunits α, β, and γ, 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 β-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 β-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 β-NGF shares 90 % sequence similarity with mouse protein and shows cross-species reactivity. Synonym: 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

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 250 mM NaCl, pH 7.0.
Storage:	4 °C,-20 °C,-80 °C
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.