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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 β -Nerve Growth Factor/ β -NGF (Ser122-Arg239, Human Cells)
Sequence:	SSSHPIFHRRG EFSVCDSVSV WVGDKTTATD IKGKEVMVLG EVNINNSVFK QYFFETKCRD PNPVDSGCRG IDSKHWNSYC TTTHTFVKAL TMDGKQAAGR FIRIDTACVC VLSRKAVR
Characteristics:	Recombinant Human β -Nerve Growth Factor/ β -NGF produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Pro99-Lys324) of Human β -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 (NGFB Products)

Target Details

Background:	<p>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.</p> <p>Synonyms: Beta-Nerve Growth Factor, Beta-NGF, NGF, NGFB</p>
Molecular Weight:	13.5 kDa
UniProt:	P01138
Pathways:	NF-kappaB Signaling , RTK Signaling , Regulation of Cell Size

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 μg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 μ 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:	<p>Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>