

Datasheet for ABIN2667381 NGFB Protein (AA 122-239)



Overview

Quantity:	100 µg
Target:	NGFB
Protein Characteristics:	AA 122-239
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Flow Cytometry (FACS)
Product Details	
Purity:	>98 % , as determined by Coomassie stained SDS-PAGE and HPLC analysis.
Endotoxin Level:	Less than 0.1 ng per µg of protein.
Target Details	
Target:	NGFB
Alternative Name:	beta-NGF (NGFB Products)
Background:	β -NGF is a pluripotent mediator and it exists in many tissues. Secreted β -NGF can bind to
	tryosine kinase A receptor with higher affinity and to p75 (NTR) with low affinity. β -NGF is well
	known as an endogenous neurotrophic factor involved in the embryonal development, survival,
	and regeneration of mammalian sympathetic and sensory neurons. In adults, β -NGF is also
	involved in the survival and regeneration of neurons in the central nervous system. Involvement

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Target Details

	of β -NGF in the immune system has also been reported. In vitro cultured B lymphocyte can
	constitutively secret β -NGF, which can act as an autocrine growth and differentiation factor for
	B cells. β -NGF can also downregulate the production of IFN- γ by T cells. Recombinant β -NGF
	has been used in many clinical trials to treat different disease including Alzheimer's disease,
	diabetic polyneuropathy, and HIV-associated peripheral neuropathy.
Molecular Weight:	The 118 amino acid recombinant protein has a predicted molecular mass of approximately
	13.5 kDa. This protein is a disulfide-linked homodimer and the predicted molecular mass is 27
	kDa. The predicted N-terminal amino acid is Ser.
Pathways:	NF-kappaB Signaling, RTK Signaling, Regulation of Cell Size
Application Details	
Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Biological activity: Assay 1: Determined by the dose-dependent stimulation of the proliferation
	of human TF-1 cells. The expected ED50 is \leq 1.0 ng/ml, corresponding to a specific activity of \geq
	1.0 x 106 units/mg. Assay 2: Determined by its ability to stimulate chick E9 DRG neurite
	outgrowth. The expected ED50 is \leq 1.0 ng/ml, corresponding to a specific activity of \geq 1.0 x 106
	units/mg.

Restrictions:

For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	For maximum results, quick spin vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/mL. Do not vortex. It is recommended to further dilute in a buffer, such as 5 % Trehalose, and store working aliquots at -20 °C to -80 °C.
Buffer:	Lyophilized, carrier-free.
Handling Advice:	Avoid repeated freeze/thaw cycles.
Storage:	-20 °C
Storage Comment:	Unopened vial can be stored at -20°C or -70°C.

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