Datasheet for ABIN6700295

NGFB Protein

2 Images

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Overview

Quantity:	20 µg
Target:	NGFB
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Mouse Nerve Growth Factor beta Recombinant Protein
Purification:	Nerve Growth Factor beta purity was determined to be greater than 95% as determined by HpLC, analysis by UV-Spectroscopy at 280nm, and by reducing and non-reducing SDS-pAGE.
Purity:	95,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity as determined by the proliferation of TF-1 cells and is typically less than 1 ng/mL.

Target Details

Target:	NGFB
Alternative Name:	NGF beta (NGFB Products)
Background:	Synonyms: beta-NGF Background: Nerve Growth Factor (NGF-β) is a neurotrophic factor related to BDNF, NT-3 and NT-4. NGF-β acts through its receptor β-NGFR, and is involved in the development and

Target Details

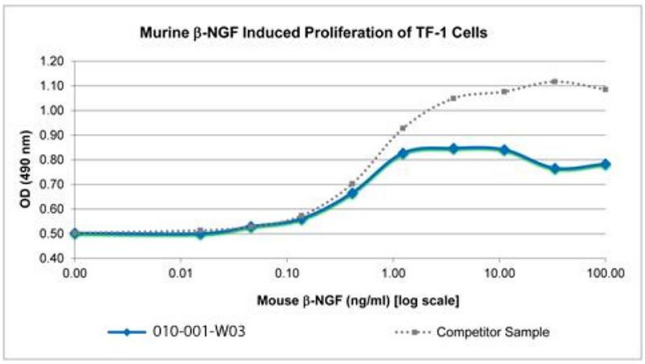
	maintenance of the sensory and sympathetic nervous systems. NGF-β also is also involved in the growth, differentiation and survival of B lymphocytes. Human, mouse and rat proteins show cross-reactivity. Recombinant mouse NGF-β is a non-glycosylated, non-covalently linked homodimer, containing two 120 amino acid chains , with a molecular weight of 13.5 kDa each.
UniProt:	Q6LDU8
Pathways:	NF-kappaB Signaling, RTK Signaling, Regulation of Cell Size

Application Details

Application Notes:	Other: User Optimized Application_Note: Nerve Growth Factor beta Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Nerve Growth Factor beta in immunological assays.
Comment:	Suggested_Applications: Cellular Assay Other_Performance_Data:
Restrictions:	For Research Use only

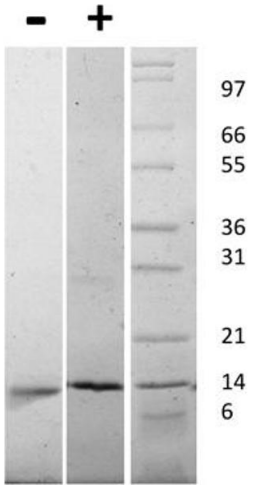
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 20 µL (20-200 µL)
Buffer:	Buffer: 0.1 % Trifluoroacetic acid Stabilizer: None
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
Expiry Date:	6 months



SDS-PAGE

Image 1. SDS-PAGE of Mouse Nerve Growth Factor beta Recombinant Protein Bioactivity of Mouse Nerve Growth Factor beta Recombinant Protein. Serial dilutions of Mouse β NGF, starting at 100 ng/mL, were added to TF-1 cells growing in GM-SCF free media. Cell proliferation was measure after 63 hours and the linear portion of the curve was us used to calculate the ED50. The ED50 of Mouse NGF is between 0.3-0.4 ng/mL. This value is comparable to the typical expected range of less than 1 ng/mL.



SDS-PAGE

Image 2. SDS-PAGE of Mouse Nerve Growth Factor beta Recombinant Protein SDS-PAGE of Mouse Nerve Growth Factor beta Recombinant Protein. Lane 1: 1 µg Mouse NGF beta in non-reducing conditions . Lane 2: 1 µg Mouse NGF beta in reducing conditions (+). Lane 3: Molecular weight marker. Mouse NGF-beta is a homodimer with a predicted MW totaling 13.5 kDa.