



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## GFH38 Recombinant Human NGF- $\beta$

### Description

Nerve Growth Factor  $\beta$  (NGF- $\beta$ ) is a neurotrophic factor that is important for the development and maintenance of sensory and sympathetic neurons. NGF- $\beta$  signals through the low affinity nerve growth factor receptor (LNGFR) and the tropomyosin receptor kinase A (TrkA) to activate PI3K, Ras, and PLC signaling pathways. NGF- $\beta$  is also involved in the growth, differentiation, and survival of B lymphocytes. Human, mouse, and rat NGF- $\beta$  proteins are cross-reactive.

<b>Length</b>	121 / 242 aa
<b>Molecular Weight</b>	13.6 / 27.3 kDa
<b>Source</b>	E. coli
<b>Accession Number</b>	P01138
<b>Purity</b>	$\geq 95\%$ determined by reducing and non-reducing SDS-PAGE

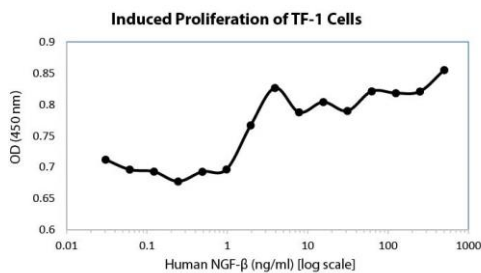
### Specifications

<b>Alternative Names</b>	Migration Inhibitory Factor, GIF, phenylpyruvate tautomerase, glycosylation-inhibiting factor, L-dopachrome tautomerase
<b>Biological Activity</b>	Human NGF- $\beta$ is fully biologically active when compared to standard. The activity is determined by the ability to induce TF-1 cells proliferation and it is typically less than 5 ng/ml. This corresponds to an expected specific activity of $2 \times 10^5$ units/mg.
<b>Endotoxin Level</b>	$\leq 1.00$ EU/ $\mu$ g as measured by kinetic LAL
<b>Formulation</b>	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
<b>AA Sequence</b>	MSSSHPIFHRG EFSVCDSVSV WVGDKTTATD IKGKEVMVLG EVNINNSVFK QYFFETKCRD PNPVDSGCRG IDSKHWNSYC TTTHTFVKAL TMDGKQAAR FIRIDTACVC VLSRKAVRRA

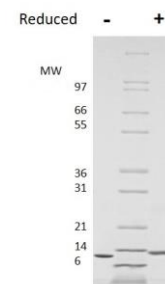
### Preparation and Storage

<b>Reconstitution</b>	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
<b>Stability and Storage</b>	12 months from date of receipt when stored at $-20^{\circ}\text{C}$ to $-80^{\circ}\text{C}$ as supplied. 1 month when stored at $4^{\circ}\text{C}$ after reconstituting as directed. 3 months when stored at $-20^{\circ}\text{C}$ to $-80^{\circ}\text{C}$ after reconstituting as directed.

### Data



Induced proliferation of TF-1 cells assay for Human NGF- $\beta$ . Cell proliferation was measured to calculate the ED50, which is as expected less than 5 ng/ml.



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1  $\mu$ g of protein was loaded in each lane. Human NGF- $\beta$  has a predicted Mw of 27.3 kDa (each monomer is 13.6 kDa).