

GFM11

Recombinant Mouse NGF- β

Description

Nerve Growth Factor β (NGF- β) is a neurotrophic factor that is important for the development and maintenance of sensory and sympathetic neurons. NGF- β 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- β is also involved in the growth, differentiation, and survival of B lymphocytes. Human, mouse, and rat NGF- β proteins are cross-reactive.

Length	121 / 242 aa
Molecular Weight	13.6 / 27.2 kDa
Source	E. coli
Accession Number	Q6LDU8
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

Specifications

Alternative Names	Nerve Growth Factor β , β -nerve growth factor, bNGF, NGFB
Biological Activity	Mouse NGF- β 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 2.0×10^5 units/mg.
Endotoxin Level	≤1.00 EU/ μ g as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
AA Sequence	MSSTHPVFHM GEFVVCDSVS VVVGDKTTAT DIKGKEVTVL AEVNINNSVF RQYFFETKCR ASNPVESGCR GIDSKHWNSY CTTHTFVKA LTTDEKQAAW RFIRIDTACV CVLSRKATRR G

Preparation and Storage

Reconstitution	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.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.