

Recombinant Human NGF- β
(Nerve Growth Factor beta)

Catalog Number: 100-38

Accession Number: P01138

Specifications and Uses:

Alternate Names: β -NGF

Description:

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 maintenance of the sensory and sympathetic nervous systems. NGF- β is also involved in the growth, differentiation and survival of B lymphocytes. Human, mouse and rat proteins show cross-reactivity. Recombinant human NGF- β is a non-covalently linked homodimer, containing two 121 amino acid chains, with a total molecular weight of 27.2 kDa.

Source: *E.coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation and Stability:

Recombinant human NGF- β is lyophilized with no additives.

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term 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 a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity (typically $\geq 97\%$) determined by:

HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:

Measured by kinetic LAL analysis and is typically ≤ 1 EU/ μ g protein.

Biological Activity:

The activity is determined by the ability to stimulate proliferation of TF-1 cells and is typically less than 1 ng/mL.

AA Sequence:

MSSSHPIFHRG EFSVCDSVSV WVGDKTTATD IKGKEVMVLG EVNINNSVFK QYFFETKCRD PNPVDSGCRG
IDSKHWNSYC TTTHTFVKAL TMDGKQAAWR FIRIDTACVC VLSRKAVRRA

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!

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