

Datasheet**NGF-beta****Human Recombinant**

Product	Description	Catalogue-No.	Size
NGF-beta	Beta nerve growth factor	CB-1117001M CB-1117001	5 µg 20 µg

Product description

Synonyms: Beta Polypeptide, NGF, NGFB, HSN5, Beta-NGF, MGC161426, MGC161428.

NGF-beta has nerve growth stimulating activity and the complex is involved in the regulation of growth and the differentiation of sympathetic and certain sensory neurons. Mutations in this gene have been associated with hereditary sensory and autonomic neuropathy, type 5 (HSAN5), and dysregulation of this gene's expression is associated with allergic rhinitis.

NGF-beta human rec. in E.Coli is a non-covalently disulfide-linked homodimer, non-glycosylated, polypeptide chain containing 2 identical 121 amino acids with a molecular weight of two 13.6 kDa polypeptide monomers.

The NGF-b human rec. is purified by proprietary chromatographic techniques.

Solubility and storage conditions

It is recommended to reconstitute the lyophilized NGF-beta in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Lyophilized NGF-beta although stable at room temperature for 3 weeks, should be stored desiccated below -20°C. Upon reconstitution NGF-beta should be stored at 2-8°C between 2-7 days and for future use below -20°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Composition

Lyophilized from a 0.2µm filtered solution containing 0.1% Trifluoroacetic acid (TFA)

Purity: > 95.0% as determined by SDS-PAGE

Amino acid sequence: MSSSHPIFHRG EFSVCDSVSV WVGDKTTATD IKGKEVMVLG
EVNINNSVFK QYFFETKCRD PNPVDSGCRG IDSKHWNSYC TTTHTFVKAL TMDGKQAAR
FIRIDTACVC VLSRKAVRRA.

Biological activity: The ED₅₀ is determined by its ability to stimulate proliferation of TF-1 cells and is typically less than 1.0ng/ml, corresponding to a specific activity of 1 x 10⁶ Units per mg.

Technical support

For technical support, questions or remarks please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email (info@pan-biotech.com) or phone +49-8543-601630.

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