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b NGF Human

Beta Nerve Growth Factor Human Recombinant
NTR0002

Product Overview

Name	b NGF Human
Description	
Beta Nerve Growth Factor Human Recombinant	
Accession (Primary)	P01138
Synonyms	
Beta Polypeptide, NGF, NGFB, HSAN5, Beta-NGF, MGC161426, MGC161428.	
Introduction	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The beta-NGF protein was lyophilized from a 0.2 µm filtered solution containing 0.1% Trifluoroacetic Acid (TFA).	
Stability	
Lyophilized Beta-NGF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution NGF-Beta should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	
MSSSHPIFHRG EFSVCDSVSV WVGDKTTATD IKGKEVMVLG EVNINNSVFK QYFFETKCRD PNPVDSGCRG IDSKHWNSYC TTTHTFVKAL TMDGKQAAWR FIRIDTACVC VLSRKAVRRA.	
Biological Activity	
The ED 50 , calculated by its ability to stimulate proliferation of TF-1 cells and is typically 1.31 ng/ml, corresponding to	

a specific activity of 7.6x10 5 units/mg.

Solubility

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

References

Title: u-Opioid receptor activation in live cells Publication: Journal 22.10 (2008): 3537-3548. Link: b NGF prospec publication

Precautions

b NGF Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P01138)