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NGF?: Human Nerve Growth Factor-beta

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Product Sheet RP1038

Product Sheet RP1038AF

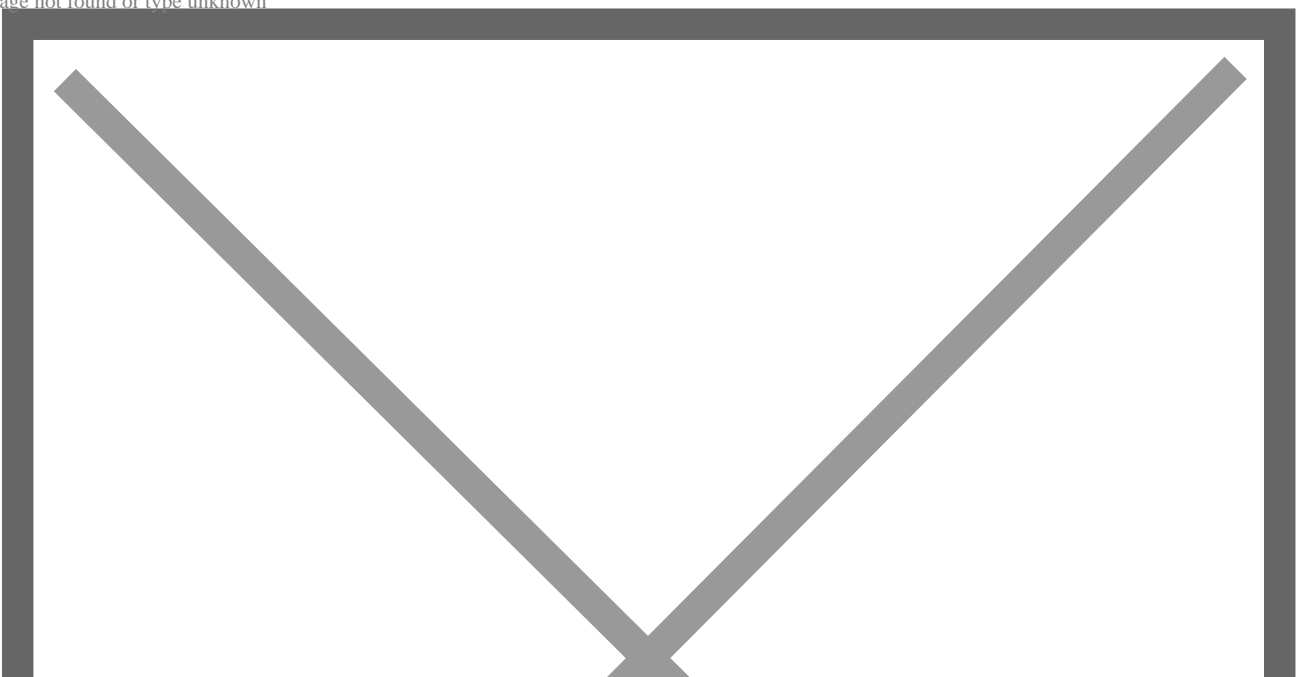
Description

BACKGROUND Nerve Growth Factor (NGF-?) is a neurotrophic factor related to BDNF, NT-3 and NT-4. NGF-? acts through its receptor ?-NGFR, and is involved in the development and maintenance of the sensory and sympathetic nervous systems. NGF-? also is also involved in the growth, differentiation and survival of B lymphocytes. Human, mouse and rat proteins show cross-reactivity.

Recombinant human NGF-? is a non-covalently linked homodimer, consisting of two 121 amino acids, with a total molecular weight of 27.2 kDa.

Products are for research use only. They are not intended for human, animal, or diagnostic applications.

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Details

Cat. No.:
RP1038 / RP1038AF

Alternative Name:
?-NGF

Source:
E. coli

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

Formulation:
Recombinant human NGF-? is lyophilized with no additives.

Stability:
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 determined by:
UV spectroscopy at 280 nm.
RP-HPLC calibrated against a known standard.
Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:
Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

Biological Activity:
The activity is determined by the ability to stimulate neurite growth in chick E9 DRG cells and is less than 1.0 ng/mL.

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

Animal Component-Free
This product is produced with no animal derived raw products. All processing and handling

employs animal free equipment and animal free protocols.

Products

Resources/Documents

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[Product Sheet RP1038AF](#) ^[3]

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Links

^[1]

https://www.cellapplications.com/sites/default/files/images_product_type/RP%20Button%20Grey%20Background_12

^[2] <https://www.cellapplications.com/sites/default/files/documents/product-sheets/Product Sheet RP1038 Human Nerve Growth Factor beta.pdf>

^[3] <https://www.cellapplications.com/sites/default/files/documents/product-sheets/Product Sheet>

