

Recombinant Human NGF Protein

Cat. No. NGF-124H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Human beta-Nerve Growth Factor is produced by our Mammalian expression system and the target gene encoding Ser122-Arg239 is expressed.

Species Human

Source Human Cells

ProteinLength Ser122-Arg239

Description

Human β -Nerve Growth Factor (β -NGF) was initially isolated in the mouse submandibular gland. It is composed of three non-covalently linked subunits α , β , and γ ; it exhibits all the biological activities ascribed to NGF. It is structurally related to BDNF, NT-3 and NT-4 and belongs to the cysteine-knot family of growth factors that assume stable dimeric structures. B-NGF is a neurotrophic factor that signals through its receptor β -NGF, and plays a crucial role in the development and preservation of the sensory and sympathetic nervous systems. B-NGF also acts as a growth and differentiation factor for B lymphocytes and enhances B-cell survival. These results suggest that β -NGF is a pleiotropic cytokine, which in addition to its neurotropic activities may have an important role in the regulation of the immune system. Human β -NGF shares 90% sequence similarity with mouse protein and shows cross-species reactivity.

Form Lyophilized from a 0.2 μ m filtered solution of 20mM PB, 250mM NaCl, pH 7.0.

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AA Sequence	SSSHPIFHRGEFSVCDSVSVWVGDKTTATDIKGKEVMVLGEVNINNSVFKQYFFETK CRDPNPVDSGC RGIDSKHWNSYCTTT HTFVKALTM DGKQAARFIRIDTACVCVL SRKAVR
Endotoxin	Less than 0.1 ng/ug (1 EU/ug).
Purity	>90%
Storage	Lyophilized protein should be stored at < -20 centigrade, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days. Aliquots of reconstituted samples are stable at < -20 centigrade for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Quality Statement	Purity: Greater than 90% as determined by reducing SDS-PAGE.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.

GENE INFORMATION

Gene Name	NGF nerve growth factor [Homo sapiens (human)]
Official Symbol	NGF
Synonyms	Beta-Nerve Growth Factor; Beta-NGF; NGFB; HSAN5

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Gene ID 4803

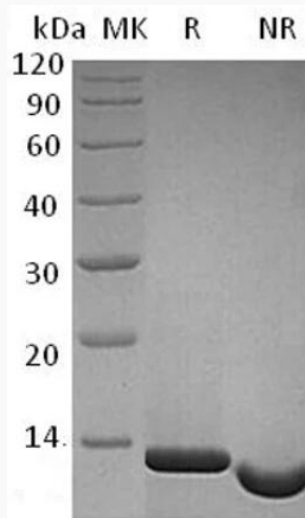
mRNA Refseq NM_002506.3

Protein Refseq NP_002497.2

MIM 162030

UniProt ID P01138

SDS-PAGE



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