

Recombinant Human NGF Protein

Cat. No. NGF-145H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human pro-Nerve Growth Factor is produced by our E.coli expression system and the target gene encoding Glu19-Ala241 is expressed.
Species	Human
Source	E.coli
ProteinLength	Glu19-Ala241
Description	The precursor form of the nerve growth factor (proNGF) like its mature form is characterized by the cystin knot motif consisting of three cystine bridges, whereas proneurotrophins and mature neurotrophins elicit opposite biological effects. ProNGF functions preferentially via the complex of pan-neurotrophin receptor p75 (p75NTR) and vps10p domain-containing receptor sortilin inducing neuronal apoptosis and contributing to age- and disease-related neurodegeneration.
Form	Lyophilized from a 0.2 um filtered solution of 20mM PB, 250mM NaCl, pH 7.2.
AA Sequence	MEPHSESNVPAGHTIPQAHWTKLQHSLDTALRRARSAPAAAIAARVAGQTRNITVDP RLFKKRRLRS PRVLFSTQPPREAADT QDLDFEVGGAAPFNRTHRSKRSSSHPIFHR GEFSVCDSVSVWVGDKTTATDIKGKEVMVLGEVNIN NSVFKQYFFETKCRDPN PV DSGCRGIDSKHWNSYCTTTHTFVKALTM DGKQAAWRFIRIDTACVCVLSRKAVRRA
Endotoxin	Less than 0.1 ng/ug (1 EU/ug).

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Purity	>95%
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 95% 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
Gene ID	4803
mRNA Refseq	NM_002506.3
Protein Refseq	NP_002497.2

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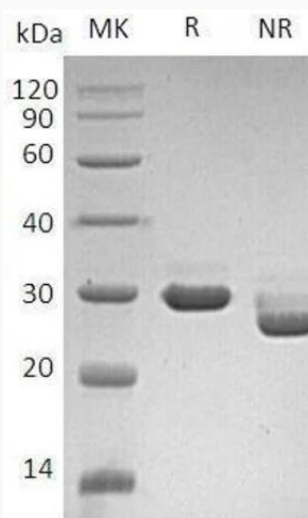
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MIM 162030

UniProt ID P01138

SDS-PAGE



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