

Recombinant Human Pro-Nerve Growth Factor

Cat. No. NGF-11H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Pro NGF is the pro-form of the neurotrophin nerve growth factor. Like the mature protein pro NGF is characterized by the cysteine knot motif consisting of three cysteine bridges. The protein predominantly exists as a non-covalently linked homodimer. Pro-Nerve Growth Factor Human Recombinant produced in E.Coli is a non-glycosylated, polypeptide chain containing 222 amino acids and having a molecular mass of 49,738 Dalton. The Pro NGF is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Physical Appearance	Sterile Filtered clear solution.
Amino acid sequence	MEPHSESNVPAGHTIPQVHWTKLQHSLDTALRRARSAPAAAIAARVAGQTRNITVDP RLFKK RRLRSPRVLFSTQPPREAADTQDLDFEVGGAAPFNRTHRSKRSSHPIFHR GEFSVCDVS SVWVGDKTTATDIKGKEVMVLGEVNINNSVFKQYFFETKCRDPNPVD SGCRGIDSKHWNYS YCTTTHTFVKALTMDGKQAAWRFIRIDTACVCVLSRKAR.
Purity	Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	The sterile protein solution 1.2mg/ml contains 50mM sodium phosphate buffer pH 7.2. 150mM sodium chloride.

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Biological Activity

The activity of the protein can be measured by its stimulating effect on the proliferation of TF1 cells (Chevalier et al. 1994 Blood 83, 1479-85). EC50 130 ± 30 pM (TF1 cell assay).

Storage

Pro-Nerve Growth Factor although stable at 15°C for a week, should be stored at -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION**Synonyms**

Human Pro-NGF; ProNGF; Pro-Nerve Growth Factor.

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