

## 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 SVWVGDKTTATDIKGEVMVLGEVNINNSVFKQYFFETKCRDPNPVD  
 SGCGRGIDSKHWNS YCTTTHTFVKALTMGKQAAWRFIRIDTACVCVLSRKAR.

**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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