

# Recombinant Human Pro-Nerve Growth Factor

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

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Product Overview</b>    | 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. |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Physical Appearance</b> | Sterile Filtered clear solution.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Amino acid sequence</b> | MEPHSESNVPAGHTIPQVHWTKLQHSLDTALRRARSAPAAAIAARVAGQTRNITVDP<br>RLFKK RRLRSPRVLFSTQPPREAADTQDLDFEVGGAAPFNRTHRSKRSSSHPIFHR<br>GEFSVCDVS SVWVGDKTTATDIKGKEVMVLGEVNINNSVFKQYFFETKCRDPNPVD<br>SGCRGIDSKHWNYS YCTTTHTFVKALTMDGKQAAWRFIRIDTACVCVLSRKAR.                                                                                                                                                                                                                                                              |
| <b>Purity</b>              | Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Formulation</b>         | 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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