



## Product Datasheet

<b>Product Name</b>	Pro-Nerve Growth Factor Human Recombinant
<b>Cata No</b>	CB500328
<b>Source</b>	<i>Escherichia Coli.</i>
<b>Synonyms</b>	Human Pro-NGF, ProNGF.

### Description

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.

### Physical Appearance

Sterile Filtered clear solution.

### 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).

EC<sub>50</sub> 130 ± 30 pM (TF1 cell assay).

### Purity

Greater than 98.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Analysis by SDS-PAGE.

### Formulation

The sterile protein solution contains 50mM sodium phosphate buffer pH 7.2, 150mM sodium chloride.

### Stability

Pro-Nerve Growth Factor although stable at 15°C for 1 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.**

### Sequence

MEPHSESNVPAGHTIPQVHWTKLQHSLDTALRRA  
RSAPAAAIAARVAGQTRNI  
TVDPRLFKKRRLRSPRVLFSTQPPREAADTQDL  
FEVGGAAPFNRTHRSKRS  
SSHPIFHRGEFSVCDSVSVWVGKTTATDIKKEV  
MVLGEVNINNSVFKQYFFET  
KCRDPNPVDSGCRGIDSKHWNSYCTTTHTFVKAL  
TMDGKQAAWRFIRIDTAC  
VCVLSRKAVR