

NGF

Recombinant Human Pro-Nerve Growth Factor

Catalog No.	CRN203A	Quantity:	2 µg
	CRN203B		10 µg
	CRN203C		100 µg

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.

Recombinant Human Pro-Nerve Growth Factor is a non-glycosylated, polypeptide chain containing 222 amino acids and having a molecular mass of 49.7 kDa. The Pro NGF is purified by proprietary chromatographic techniques.

Concentration: 1.0 mg/ml

Source: *E. coli*

Formulation: Sterile filtered liquid in a buffer of 50 mM sodium phosphate, pH 7.2 + 150 mM sodium chloride.

Purity: >98% as determined by RP-HPLC and SDS-PAGE

Endotoxin Level: <0.1 ng/µg of the protein.

Biological Activity: Determined by its stimulation of the proliferation of TF1 cells (TF1 cell assay). The EC₅₀ = 130 ± 30 pM.

Amino Acid Sequence: MEPHSESNVP AGHTIPQVHW TKLQHSLDTA LRRARSAPAA AIAARVAGQT
 RNITVDPRLF KKRRRLSPRV LFSTQPPREA ADTQDLDFEV GGAAPFNRTN
 RSKRSSHPI FHRGEFSVCD SVSVWVGKTT ATDIKGKEVM VLGEVNINNS
 VFKQYFFETK CRDPNPVDSG CRGIDSKHWN SYCTTTHTFV KALTMGKQA
 AWRFIRIDTA CVCVLSRKAV R

Storage & Stability: **Centrifuge vial prior to opening** Although stable for three weeks at ambient temperature, product should be stored at 2-4°C. For long term storage, it is recommended to add a carrier protein (0.1% HSA or BSA). **Avoid repeated freeze-thaw cycles.**

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