

Human Recombinant proNGF

ProNGF is the proform of the neurotrophin nerve growth factor. Like the mature protein proNGF is characterized by the cystin knot motif consisting of three cystine bridges. Recombinant human proNGF has 222 amino acids including the N-terminal methionine residue. The protein predominantly exists as a non-covalently linked homodimer. 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).



Protein	human recombinant proNGF
Source	<i>E. coli</i>
Lot no.	CH21

Protein characteristics:

Molecular weight (dimer)	49738 Da
Theoretical pI	9.89
Absorption coefficient	51360 M ⁻¹ ·cm ⁻¹
Sequence (SwissProt AccNo)	P01138

MEPHSESNPAGHTIPQVHWTKLQHS�LDALRRARSAPAAAIAARVAGQTRNITVDPRLFKKRRLRSRVLFTSQP
PREAADTQDLDFEVGGAAPFNRTHRSKRSSHPIFHRGEFSVCDSVSVWVGDKTTATDIKGKEVMVLGEVNINNS
VFKQYFFETKCRDPNPVDSGCRGIDSKHWNSYCTTHTTFVKALTMGKQAAWRIFRIDTACVCVLSRKAVR

Product analysis:

Concentration	1.1 mg/ml
Purity	greater than 98% by SDS-PAGE
Endotoxins	less than 0.05 EU/μg
Biological activity	EC50 130 ± 30 pM (TF1 cell assay)

Storage:

Buffer	50 mM sodium phosphate pH 7.2 150 mM sodium chloride
Short term (< 5 weeks)	4-8°C
Long term (5 weeks - 1 year)	-20°C

It is recommended to spin down the protein and to prepare and store working aliquots.

This product is for *in vitro* research only. The toxicity has not been thoroughly investigated.