

## Recombinant Human ProNGF

<b>CATALOG #:</b>	4274-10	10 µg
	4274-50	50 µg
	4274-1000	1 mg
<b>ALTERNATE NAMES:</b>	Beta-nerve growth factor (Beta-NGF)	
<b>SOURCE:</b>	E. Coli	
<b>PURITY:</b>	> 95% as determined by SEC-HPLC. > 95% as determined by reducing SDS-PAGE	
<b>MOL. WEIGHT:</b>	~ 25 kDa	
<b>FORMULATION:</b>	Recombinant ProNGF is lyophilized from a 0.2 µm filtered solution of 20 mM PB and 250 mM NaCl, pH 7.2.	
<b>ENDOTOXIN CONTENT:</b>	< 0.1 ng/µg (1 IEU/µg)	

**SEQUENCE:**

Recombinant human ProNGF produced in E. coli is a non-glycosylated, non-covalently linked homodimer with each polypeptide chain containing 222 amino acids with an extra N-terminal Met and having a molecular mass of 25 kDa. The sequence of the first five N-terminal amino acids was determined and was found to be Met-Glu-Pro-His-Ser.

**RECONSTITUTION:**

Dissolve in 1x PBS (It is not recommended to reconstitute to a final concentration less than 100 µg/ml.). This can further be diluted to other aqueous buffers.

**STORAGE CONDITIONS:**

Lyophilized ProNGF/NGF Pro Form should be stored at less than -20°C, though stable at room temperature for 3 weeks. Reconstitute protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at less than -20°C for 3 months. Avoid repeated freeze thaw cycles.

**DESCRIPTION:**

The precursor form of the nerve growth factor (proNGF) like its mature form is characterized by the cystine knot motif consisting of three cystine bridges, whereas proneurotrophins and mature neurotrophins elicit opposite biological effects. ProNGF functions preferentially via the complex of pan-neurotrophin receptor p75 (p75NTR) and vps10p domain-containing receptor sortilin inducing neuronal apoptosis and contributing to age- and disease-related neurodegeneration.

**RELATED PRODUCTS:**

- NGF-beta, human recombinant (**Cat. No. 4303R-10, 20, 1000**)
- NGF-beta, human recombinant (CHO) (**Cat. No. 4303-20, 1000**)
- NGF-beta, murine recombinant (**Cat. No. 4304-5, 10, 20, 1000**)
- Recombinant human ProBDNF (**Cat. No. 4273-10, 50, 100**)
- Recombinant human ProNT-3 (**Cat. No. 4272-10, 50, 100**)
- BDNF Antibody (**Cat. No. 5004- 100**)
- TrkA Antibody (**Cat. No. 3194- 100**)
- TrkA Blocking Peptide (**Cat. No. 3194BP- 50**)
- TrkB Antibody (**Cat. No. 3593- 100**)
- TrkB Blocking Peptide (**Cat. No. 3593BP- 50**)
- TrkA Antibody (**Cat. No. 3194- 100**)
- Active TrkB (**Cat. No. 7758- 100**)
- Phospho-TrkA Antibody (**Cat. No. 3503- 100**)

**FOR RESEARCH USE ONLY! Not to be used on humans.**