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ProNGF, human recombinant protein
Catalog # PBV10205r

Specification

ProNGF, human recombinant protein - Product info

Primary Accession	P01138
Calculated MW	~25 kDA KDa

ProNGF, human recombinant protein - Additional Info

Gene ID	4803
Gene Symbol	NGF
Other Names	
Beta-nerve growth factor (Beta-NGF)	
Gene Source	Human
Source	E. coli
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	HPLC; ≥95%
Recombinant	Yes
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.

Target/Specificity
ProNGF

Application Notes
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.

Format
Lyophilized protein

Storage
-20°C; Lyophilized from a 0.2 µm filtered solution of 20 mM PB and 250 mM NaCl, pH 7.2.

ProNGF, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides

- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ProNGF, human recombinant protein - Images

ProNGF, human recombinant protein - Background

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.

ProNGF, human recombinant protein - References

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Tong Y.,et al.Zhongguo Ying Yong Sheng Li Xue Za Zhi 13:316-318(1997).
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