Pro-Nerve Growth Factor, human recombinant (rHuPro-NGF)

Catalog No: 87319
Lot No: XXXXX
Source: *E. coli*
Synonyms: Human Pro-NGF, ProNGF

Background

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.

Description

Pro-Nerve Growth Factor human recombinant produced in *E. coli* is a non-glycosylated, polypeptide chain containing 224 amino acids and having a molecular mass of 50 kDa. Pro NGF is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Pro NGF was lyophilized from a 0.2 µM filtered solution containing 20 mM sodium phosphate and 250 mM sodium chloride pH 7.2.

Stability

Pro-Nerve Growth Factor, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Prolactin should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino Acid Sequence

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MEPHSESNVP AGHTIPQVHW TKLQHSLDTA LRRARSAPAA AIAARVAGQT RNITVDPRLF KKRRLRSPRV LFSTQPPREA
ADTQDLDFEV GGAAPFNRTH RSKRSSSHPI FHRGEFSVCD SVSVWVGKTT ATDIKGKEVM VLGEVNINNS VFKQYFFETK
CRDPNPVDSG CRGIDSKHWN SYCTTTHTFV KALTMDGKQA AWRFIRIDTA CVCVLSRKAV RRA
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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). EC50 130 ± 30 pM (TF1 cell assay).

Usage

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