

Recombinant Human pro-NGF Catalog No: C078

Description Recombinant Human pro-Nerve Growth Factor is produced by our E.coli expression system and the

target gene encoding Glu19-Ala241 is expressed.

Source E. coli

Alternative name Beta-Nerve Growth Factor; Beta-NGF; NGF; NGFB

Accession No. P01138

Formulation Lyophilized from a 0.2 µm filtered solution of 20mM PB, 250mM NaCl, pH 7.2.

Quality Control Purity: Greater than 95% as determined by reducing SDS-PAGE.

Endotoxin: Less than 0.1 ng/μg (1 IEU/μg).

Reconstitution Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

It is not recommended to reconstitute to a concentration less than 100µg/ml.

Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Shipping The product is shipped at ambient temperature.

Upon receipt, store it immediately at the temperature listed below.

Storage Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Amino Acid Sequence MEPHSESNVPAGHTIPQAHWTKLQHSLDTALRRARSAPAAAIAARVAGQTRNITVDPRLFKKRRLRS

PRVLFSTQPPREAADT

QDLDFEVGGAAPFNRTHRSKRSSSHPIFHRGEFSVCDSVSVWVGDKTTATDIKGKEVMVLGEVNIN

NSVFKQYFFETKCRDPN

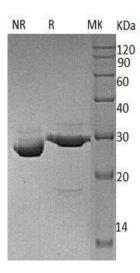
PVDSGCRGIDSKHWNSYCTTTHTFVKALTMDGKQAAWRFIRIDTACVCVLSRKAVRRA

Background

The precursor form of the nerve growth factor (proNGF) like its mature form is characterized by the cystin 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.

SDS-PAGE



NR: Sample in non-reducing conditions

R: Sample in reducing conditions

MK: Marker

