



Recombinant Mouse Beta-NGF (110AA)

Catalog #	EPT250
Expression Host	E.coli
DESCRIPTION	Recombinant Mouse Beta-Nerve Growth Factor is produced by our E.coli expression system and the target gene encoding Met130-Arg239 is expressed.
Accession	P01139
Synonyms	Beta-Nerve Growth Factor; Beta-NGF; NGF; NGFB; β -NGF
Mol Mass	12.4 KDa
AP Mol Mass	12 KDa, reducing conditions
Purity	Greater than 95% as determined by reducing SDS-PAGE.
Endotoxin	Less than 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test.
FORMULATION	Lyophilized from a 0.2 μ m filtered solution of 20mM PB, 200mM NaCl, pH 8.0.
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 $< -20^{\circ}\text{C}$, though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at $4-7^{\circ}\text{C}$ for 2-7 days.

Aliquots of reconstituted samples are stable at $< -20^{\circ}\text{C}$ for 3 months.

BACKGROUND

NGF is the first member discovered in the Neurotrophin family, which includes brain-derived neurotrophic factor (BDNF), neurotrophin-3 (NT-3), and neurotrophin-4 (NT-4). These proteins belong to the cysteine-knot family of growth factors that assume stable dimeric structures. Mouse beta -NGF is a homodimer of two 120 amino acid polypeptides. It shares approximately 90% homology at the amino





acid level with human beta -NGF and 95.8% with rat beta -NGF. NGF signaling has been shown to play an important role in neuroprotection and repair. β -NGF acts as a growth and differentiation factor for B lymphocytes, and enhances B-cell survival. It is a potent neurotrophic factor that signals through its receptor β -NGFR, and plays a crucial role in the development and preservation of the sensory and sympathetic nervous systems.

SDS-PAGE

