

NT3/NGF-2, Human, Recombinant

Cat. No. : PCK210

General Information

Synonyms	Neurotrophin-3;NT-3;HDNF;Nerve Growth Factor 2;NGF-2;Neurotrophic Factor;NTF3
Species	Human
Expression host	E.coli
Sequence	Tyr139-Thr257
Accession	P20783
Mol mass	13.6 kDa
Expiration date	12 months
Bio activity	Immobilized Human TrkB (C-6His) at 5 µg/mL (100 µL/well) can bind Human NT-3: Biotinylated by NHS-biotin prior to testing. The EC50 of Human NT-3 is 15 ng/mL.

Product feature

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin (EU/µg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -5~-20°C for 3 months.
Shipping	Ice bag
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 250 mM NaCl, pH 7.2.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in sterile water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Background

Neurotrophin-3 (NT-3) is a member of the NGF family of neurotrophic factors and is structurally related to β-NGF, BDNF and NT-4. The NT3 cDNA encodes a 257 amino acid residue precursor Protein with a signal peptide and a pro Protein that are cleaved to yield the 119 amino acid residue mature NT3. The amino acid sequences of mature human, murine and rat NT-3 are identical. NT-3 selectively promotes the differentiation and survival of specific neuronal subpopulations in both the central as well as the peripheral nervous systems.

SDS-PAGE