

NT-3 Human E. coli

Product Data Sheet

Type: Recombinant	Cat. No.:	
Source: E. coli	RBG10252002	(2 µg)
Species: Human	RBG10252010	(10 µg)
Other names: Neurotrophin-3, Neurotrophic factor, Nerve growth factor-2, NGF-2, HGNF	RBG10252100	(100 µg)

Description

NT-3 is a neurotrophic factor structurally related to beta-NGF, BDNF, and NT-4. These proteins belong to the cysteine-knot family of growth factors that assume stable dimeric structures. NT-3 is expressed by neurons of the central nervous systems, and can signal through the trk receptors. NT-3 promotes the growth and survival of nerve and glial cells. The amino acid sequences of human, murine and rat NT-3 are identical. Recombinant Human NT-3 is a noncovalently linked homodimer of two 13.6 kDa polypeptide monomers (240 total amino acid residues).

Research topic

Neural tissue markers

Amino Acid Sequence

MYAEHKSHRG EYSVCDSESL WVTDKSSAID IRGHQVTVLG EIKTGNPVPK QYFYETRCKE ARPVKNGCRG IDDKHWNSQC
KTSQTYVRAL TSENNKLVGW RWIRIDTSCV CALSRKIGRT

Source

E. coli

Purity

98%

Biological Activity

The ED₅₀ as determined by the dose-dependent induction of choline acetyl transferase activity in rat basal forebrain primary septal cell cultures was found to be in the range of 20-50 ng/ml.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

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