

## 32-20319: Animal-Free Recombinant Human NT-3(Discontinued)

**Reactivity :** Human, Mouse, Rat

**Alternative Name :** Neurotrophin-3, Neurotrophic factor, Nerve growth factor-2, NGF-2, HGNF

### Description

#### Source:E.coli

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 system, 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).

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Purity: >= 98% by SDS-PAGE gel and HPLC analyses.

**Content :** This recombinant protein is supplied in lyophilized form.

**Amino Acid :** MYAEHKSHRG EYSVCDSESL WVTDKSSAID IRGHQVTVLG EIKTGNSPVK QYFYETRCKE ARPVKNGCRG  
IDDKHWNSQC KTSQTYVRAL TSENNKLVGW RWIRIDTSCV CALSRKIGRT

### Application Note

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