

**Recombinant Human NT-3**  
**Catalog # PBG10339****Specification**

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**Recombinant Human NT-3 - Product Information****Recombinant Human NT-3 - Additional Information****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). **Human and M NT-3 sequences are identical.**

**Biological Activity**

The ED<sub>50</sub> as determined by the dose-dependent induction of choline acetyltransferase activity in rat basal forebrain primary septal cell cultures was found to be in the range of 20-50 ng/ml.

**Authenticity**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**Endotoxin**

Endotoxin level is <0.1 ng/  $\mu$ g of protein (<1EU/  $\mu$ g).

**Protein Content**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

**Storage**

-20°C

**Precautions**

Recombinant Human NT-3 is for research use only and not for use in diagnostic or therapeutic procedures.

**Recombinant Human NT-3 - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [Flow Cytometry](#)
- [Cell Culture](#)

### **Recombinant Human NT-3 - Images**