



Recombinant Protein Technical Manual  
Recombinant Human Neurotrophin-3/NTF3 Protein  
(Active)  
RPES0375

Product Data:

**Product SKU:** RPES0375

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P20783

Protein Information:

**Molecular Mass:** 13.6 kDa

**AP Molecular Mass:** 14 kDa

**Tag:**

**Bio-activity:** Immobilized Human NT-3 at 10ug/ml(100 µl/well) can bind Human TrkB-His(Cat: PKSH033579). The ED50 of Human NT-3 is 3.777 ug/ml .

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mM PB, 250mM NaCl, pH 7.2.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:** Functional ELISA

**Synonyms:** Neurotrophin-3; NT-3; HDNF; Nerve Growth Factor 2; NGF-2; Neurotrophic Factor; NTF3

## Immunogen Information:

**Sequence:** Tyr139-Thr 257

## Background:

Neurotrophin-3 (NT-3) is a member of the NGF family of neurotrophic factors and is structurally related to  $\beta$ -NGF, BDNF and NT-4. The NT3 cDNA encodes a 257 amino acid residue precursor protein with a signal peptide and a proprotein 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.