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NTF3
Recombinant Human/Mouse Neurotrophin 3

Catalog No.	CRN500A	**Quantity:**	2 µg
	CRN500B		10 µg
	CRN500C		1.0 mg
	CRN500D		100 µg

Alternate Names: Neurotrophic factor, Nerve growth factor-2, NGF-2, HDNF, NT3

Description: Neurotrophin-3 (NTF3) is an important member of the nerve growth factor (NGF) family of proteins behind BDNF and NGF. It is thought to promote the survival or differentiation of existing and new neurons in the central nervous system and synapses. These functions are thought to be communicated by TrkC, a receptor tryrosine kinase thought induce NTF3-specific signaling. In addition, NTF3 is thought to also bind TrkB and low affinity nerve growth factor receptor (LNGFR).

Recombinant Human and mouse NTF3 have 100% sequence homology.

Gene ID: 4908 human, 18205 mouse

UniProt ID: P20783 human, P20181 mouse

Source: *E. coli*

Molecular Weight: Dimer (noncovalently linked), 13.8/27.5 kDa (120/240 aa)

Formulation: Lyophilized from a sterile filtered solution containing 0.1% Trifluoroacetic Acid (TFA).

Purity: ≥95% by reducing and non-reducing SDS-PAGE

Endotoxin Level: ≤ 1 EU/µg by kinetic LAL

Biological Activity: ED_{50} ≤ 20 ng/ml by dose-dependent proliferation of a neuroblastoma cell line stably expressing TrkB (BR6).

Specific Activity: ≥ 5.0×10^4 units/mg

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

Reconstitution: **Centrifuge vial prior to opening**. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. **DO NOT VORTEX**. Allow several minutes for reconstitution.

Storage & Stability: **Upon receipt**, store as supplied at -20 °C to -80 °C for up to one year. **Upon reconstitution**, the preparation is stable for up to one month at 2-8 °C. **For long term storage** reconstitute in working aliquots containing 0.1% BSA and store at -20 °C to -80 °C for up to 3 months. **Avoid repeated freeze-thaw cycles**

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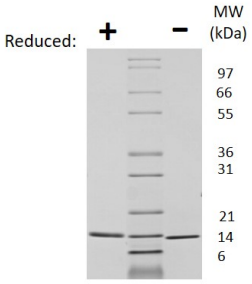
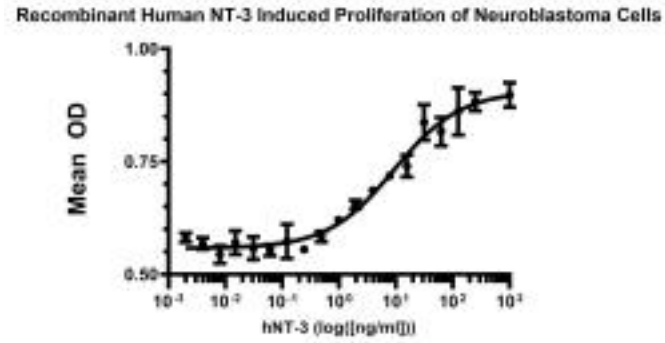


Human / Mouse NT-3 Gel
Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human / Mouse NT-3 is a noncovalent homodimer and therefore has a predicted MW of 13.8 kDa when run under both reducing and non-reducing conditions.



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