NTF4
Recombinant Human Neurotrophin-4

Catalog No.	CRH321B	**Quantity:**	100 µg
	CRH321C		1 mg
	CRH321D		10 µg

Alternate Names: Neurotrophin-4, Neurotrophin 5, NT-5, Neurotrophic Factor 4

Description: Neurotrophin-4 (NT-4) is an important member of the nerve growth factor (NGF) family of proteins. Neurotrophins undergo paracrine and autocrine signaling to control neuronal survival, neuronal differentiation, and dendrite outgrowth. NT-4 is expressed ubiquitously and signals through the TrkB receptor tyrosine kinase.

Gene ID: 4909

UniProt ID: P34130

Source: *E. coli*

Molecular Weight: 14.1/28.1 kDa, (131/262 aa) noncovalant homodimer

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

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

Endotoxin Level: ≤ 0.1 EU/µg by kinetic LAL analysis

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: MGVSETAPAS RRGELAVCDA VSGWVTDRRT AVDLRGREVE VLGEVPAAGG SPLRQYFFET RCKADNAEEG GPGAGGGGCR GVDRRHWVSE CKAKQSYVRA LTADAQGRVG WRWIRIDTAC VCTLLSRTGR A

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

Storage & Stability: Store as supplied at -20°C to -80°C for up to 1 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 -80°C.
Avoid repeated freeze-thaw cycles.

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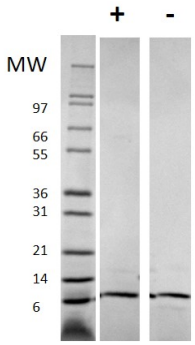
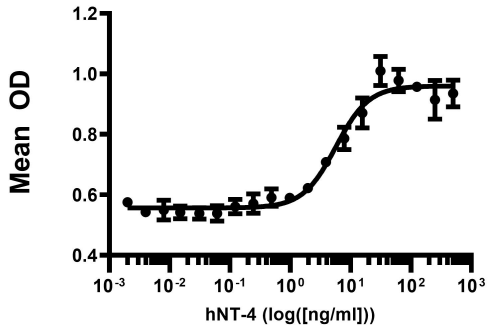


Human Gro-beta

Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human GROb has a predicted MW of 7.9 kDa.

Recombinant NT-4 Induced Proliferation of Neuroblastoma Cells



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