

Product: **Recombinant Human Neurotrophin-4 / NT-4**
Cat #: 300-204P
Powder

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| Description | Neurotrophin-4 (NT-4) is an important member of the nerve growth factor (NGF) family of proteins along with NT-3, BDNF and NGF. Neurotrophins act in a paracrine and/or autocrine manner to control neuronal numbers and dendrite outgrowth. These functions are thought to be communicated by TrkB, a receptor tyrosine kinase that NT-4 shares with BDNF. Alternate names: NT-4/5, Neurotrophin 5, NT-5, Neurotrophic Factor |
| MW | Non-glycosylated, non-covalently linked homodimer, containing two 131 amino acid chains, with a total molecular weight of 28.1 kDa. |
| Physical Appearance | Sterile filtered white lyophilized (freeze-dried) powder. |
| Source | <i>E. coli</i> |
| Formulation | Recombinant human NT-4 is lyophilized with no additives. |
| Reconstitution | Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions. |
| Stability | Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage. |
| Biological Activity | The activity is determined by the dose-dependent proliferation of C6 cells and is typically in the range of 1-5 µg/mL. |
| Endotoxin Level | Measured by kinetic LAL analysis and is typically ≤ 1 EU/µg protein. |
| AA Sequence | MGVSETAPAS RRGELAVCDA VSGWVTD RRT AVDLRGREVE VLGEVPAAGG SPLRQYFFET RCKADNAEEG GPGAGGGGCR GVDRRHVSE CKAKQSYVRA LTADAQGRVG WRWIRIDTAC VCTLLSRTGR A |

Purity greater than 97% determined by HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

Protein content determined by HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!