

Neurotrophin-4 Human Recombinant

Item Number	rAP-2701
Synonyms	NT4, NT5, NTF5, NT-4/5, NTF4, Neurotrophin-4, Neurotrophic factor 4, Neurotrophin-5, NT-5.
Description	Neurotrophin-4 Human Recombinant produced in E.Coli is a noncovalently linked homodimer, non-glycosylated polypeptide chain containing 2 x 130 amino acids (81-210 amino acids) and having a total molecular mass of 28 kDa. The NT-4 is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P34130
Amino Acid Sequence	GVSETAPASR RGELAVCDAV SGWVTDTRTA VDLRGREVEV LGEVPAAGGS PLRQYFFETR CKADNAEEGG PGAGGGGCRG VDRRHVVSEC KAKQSYVRAL TADAQGRVGV RWIRIDTACV CTLLSRTGRA.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized NT-4 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution NT-4 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Formulation and Purity	Lyophilized from a concentrated (1mg/ml) solution in water containing 20mM phosphate buffer pH-7.4 and 150mM NaCl. Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized NT-4 in sterile 18MΩ-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	Determined by the dose-dependent induction of choline acetyl transferase activity in rat basal forebrain primary septal cell cultures was found to be in the range of 20-50 ng/ml.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**