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# NT 4 Human

*Neurotrophin-4 Human Recombinant*
*NTR0064*

## Product Overview

| | |
|---|---|
| Name | NT 4 Human |
| **Description** | |
| Neurotrophin-4 Human Recombinant | |
| Accession (Primary) | P34130 |
| **Synonyms** | |
| NT4, NT5, NTF5, NT-4/5, NTF4, Neurotrophin-4, Neutrophic factor 4, Neurotrophin-5, NT-5. | |
| **Introduction** | |
| NT-4 is part of the family of neurotrophic factors, neurotrophins, that are in charge for the survival and differentiation of mammalian neurons. NT-4 expression is dominant and less influenced by environmental signals. NT-4 deficient mice shows slight cellular deficits and develop normally to adulthood. NT-4 is a target-derived survival factor for peripheral sensory sympathetic neurons.NT-4 is involved in the proliferation and differentiation of periodontal ligament cells. | |
| **Source** | |
| Escherichia Coli. | |
| **Physical Appearance** | |
| Sterile Filtered White lyophilized (freeze-dried) powder. | |
| **Formulation** | |
| Lyophilized from a concentrated (1mg/ml) solution in water containing 20mM phosphate buffer pH-7.4 and 150mM NaCl. | |
| **Stability** | |
| 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. | |
| **Purity** | |
| Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. | |
| **Amino acid sequence** | |
| GVSETAPASR RGELAVCDAV SGWVTDRRTA VDLRGREVEV LGEVPAAGGS PLRQYFFETR CKADNAEEGG PGAGGGGCRG VDRRHWVSEC KAKQSYVRAL TADAQGRVGW RWIRIDTACV CTLLSRTGRA. | |
| **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.

**Solubility**

It is recommended to reconstitute the lyophilized NT-4 in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

**Precautions**

NT 4 Human is for research use only and not for use in diagnostic or therapeutic procedures.

## Target Information: ( P34130 )