

Neurotrophin-4 Protein, Human

Cat. No.:	HY-P7272
Synonyms:	rHuNT-4; NT-5; NTF4; NTF5; NT4
Species:	Human
Source:	E. coli
Accession:	P34130 (G81-A210)
Gene ID:	4909
Molecular Weight:	Approximately 17 kDa

PROPERTIES

AA Sequence	<pre> M G V S E T A P A S R R G E L A V C D A V S G W V T D R R T A V D L R G R E V E V L G E V P A A G G S P L R Q Y F F E T R C K A D N A E E G G P G A G G G G C R G V D R R H W V S E C K A K Q S Y V R A L T A D A Q G R V G W R W I R I D T A C V C T L L S R T G R A </pre>
Biological Activity	<ol style="list-style-type: none"> The ED₅₀ is <5 µg/mL as measured by C6 cells, corresponding to a specific activity of >2.0 × 10² units/mg. Measured by its binding ability in a functional ELISA. When Recombinant Human Neurotrophin-4 is present at 5 µg/mL, can bind Recombinant Mouse TrkB. The ED₅₀ for this effect is 8.676 ng/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized after extensive dialysis against 50 mM acetic acid or PBS, pH 7.4.
Endotoxin Level	<0.3 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O or 50 mM acetic acid. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Neurotrophin-4 (NT-4) is a member of the well-studied family of neurotrophins that regulate the development of neuronal networks by participating in the growth of neuronal processes, synaptic development and plasticity, neuronal survival, differentiation, as well as myelination. Neurotrophin-4 binds with two distinct receptors: TrkB, high affinity receptor and p75 low-affinity neurotrophin receptor (p75NTR) ^[1] .
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REFERENCES

[1]. D'Angelo L, et al. Neurotrophin-4 in the brain of adult *Nothobranchius furzeri*. *Ann Anat.* 2016 Sep;207:47-54.

Caution: Product has not been fully validated for medical applications. For research use only.

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