



Recombinant Human NT-4

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-087
Size:	10 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	4909
Synonyms:	NTF4; NT4; NT5; NT-4; NT-5; NTF5; GLC10; GLC10; NT-4/5

NT-4 is a neurotrophic factor structurally related to β -NGF, BDNF, and NT-3. These proteins belong to the cysteine-knot family of growth factors that assume stable dimeric structures. NT-4 is expressed in the prostate, thymus, placenta and skeletal muscle. NT-4 can signal through the LNGFR and trkB receptors and promotes the survival of peripheral sensory sympathetic neurons. Recombinant human NT-4 is a noncovalently linked homodimer, of two 14.0 kDa polypeptide monomers (260 total amino acid residues).

Sequence

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GVSETAPASR  RGELAVCDAV  SGWVTD RRTA  VDLRGREVEV  
LGEVPAAGGS  PLRQYFFETR  CKADNAEEGG  PGAGGGGCRG  
VDRRHVVSEC  KAKQSYVRAL  TADAQGRVWG  RWIRIDTACV  
CTLLSRTGRA
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Database References

Protein RefSeq:	NP_006170.1
Uniprot ID:	P34130
mRNA RefSeq:	NM_006179.4

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Structural Information	homodimer
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	130
MW:	14 kDa

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.



AVOID REPEATED FREEZE AND THAW CYCLES!