Datasheet for ABIN2018284

Neurotrophin 4 Protein (NTF4) (AA 81-210)

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Overview

Quantity:	50 µg
Target:	Neurotrophin 4 (NTF4)
Protein Characteristics:	AA 81-210
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 5.0 µg/mL, measured by a cell proliferation assay using C6 cells, corresponding to a specific activity of > 2.0x 102 units/mg. AA 81-210, expressed with an N-terminal Met.
Purity:	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin Level:	< 0.3 EU/µg, determined by LAL method.

Target Details

Target:	Neurotrophin 4 (NTF4)
Alternative Name:	Neurotrophin-4 (NT-4) (NTF4 Products)
Background:	Neurotrophin-4 (NT-4), also known as NT-5, is a neurotrophic factor structurally related to beta-NGF, BDNF, and NT-3. Human NT-4 shares 48 - 52 % aa sequence identity with human beta-NGF, BDNF, and NT-3.Neurotrophins have six conserved cysteine residues that are involved in

Target Details

	the formation of three disulfide bonds. NT-4 is expressed highest levels in prostate, lower levels in thymus, placenta, and skeletal muscle. NT-4 binds and induces receptor dimerization and activation of TrkB. NT-4 can signal through TrkB receptors and promotes the survival of peripheral sensory sympathetic neurons.Recombinant human Neurotrophin-4 (rhNT-4) produced in E.coli is a noncovalently linked homodimer containing two non-glycosylated polypeptide chains of 131 amino acids. A fully biologically active molecule, rhNT-4 has a molecular mass of 28.1 kDa analyzed by reducing SDS-PAGE. Synonyms: Neurotrophin-4, Neurotrophic 4/5 (NT-4/NT-5)
Molecular Weight:	28.1 kDa, a noncovalently linked homodimer,of two 14.0 kDa polypeptide monomers.
UniProt:	P34130
Pathways:	RTK Signaling

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstituted in 50 mM acetic acid or ddH2O at 50 µg/mL.
Buffer:	Lyophilized after extensive dialysis against 50 mM acetic acid.
Storage:	-80 °C
Storage Comment:	Lyophilized recombinant human Neurotrophin-4 (rhNT-4) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhNT-4 should be stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.
Expiry Date:	6 months