Datasheet for ABIN2018283

Neurotrophin 4 Protein (NTF4) (AA 80-209)

Go to Product page

Overview

Quantity:	50 µg
Target:	Neurotrophin 4 (NTF4)
Protein Characteristics:	AA 80-209
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 <1 µg/mL, measured by a cell proliferation assay usingC6cells, corresponding to a specific activity of>1× 10^3 units/mg. AA 80-209, expressed with an N-terminal Met.
Purity:	> 95 % by SDS-PAGEanalysis.
Endotoxin Level:	< 0.2 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) is a small secreted cytokine, and belongs to the Neurotrophin (NT) family, which also includes Brain Derived Neurotropic Factor (BDNF), Nerve Growth Factor (NGF), and NT-3. NT family members are all derived from similar sized protein precursors,

Target Details

	composed of N-terminal propeptides and C-terminal mature domains, which are separated by posttranslational proteolytic cleavage. NT-4 (along with NT-3) is foundin the brains of mammals . In vivo, NT-4 binds to the common receptor, p75NTR, and a tyrosine kinase receptor, TrkB. The heterotrimeric complex activates the NF-kappaB transcription factor. NT-4 is essential for the differentiation and wiring regulation of the central and peripheral nervous systems during development, and is related to important diseases including Alzheimer's.Recombinant mouse Neurotrophin-4 (rmNT-4) produced in E. coli is a noncovalently linked homodimer containing two non-glycosylated polypeptide chainsof 131 amino acids. A fully biologically active molecule, rmNT-4 has a molecular mass of 14.0 kDaanalyzed by reducing SDS-PAGE. Synonyms: Neurotrophin-4, Neurotrophic 4/5 (NT-4/NT-5)
Molecular Weight:	14.0 kDa, observed by reducing SDS-PAGE.
UniProt:	Q80VU4
Pathways:	RTK Signaling

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstituted in 50 mM acetic acid or ddH2O at 100 µg/mL.
Buffer:	Lyophilized after extensive dialysis against 50 mM acetic acid.
Storage:	-80 °C
Storage Comment:	Lyophilized recombinant mouse Neurotrophin-4 (rmNT-4) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rmNT-4 remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.
Expiry Date:	6 months