PRODUCT DATA SHEET

Bioworld Technology,Inc.

Recombinant NT-4, Mouse

Catalog Number: BK0145-10μg Source: Escherichia coli. Quantity: 10μg

Description:

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, 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 NFκB 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 14.0kDaanalyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.

Molecular Weight:

14.0 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% by SDS-PAGEanalysis.

Biological Activity:

ED50 <1 μg/mL, measured by a cell proliferation assay usingC6cells, corresponding to a specific activity of>1× 10^3 units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against 50mM acetic acid.

AA Sequence:

MGVSETAPASRRGELAVCDAVSGWVTDRRTAV-
DLRGREVEVLGEVPAAGGSPLRQYF-
FETRCKAESAGEGG-
PGVGGGGCRGVDRRHWLSECKAKQSYVRAL-
TADSQGRVGWRWIRIDTACVCTLLSRTGRA

Endotoxin:

< 0.2 EU/μg, determined by LAL method.

Reconstitution:

Reconstituted in 50mM acetic acid or ddH2O at 100 μg/mL.

Storage:

Lyophilized recombinant mouse Neurotrophin-4 (rmNT-4) remains stable up to 6 months at -80 ℃ from date of receipt. Upon reconstitution, rmNT-4 remains stable up to 2 weeks at 4 ℃ or up to 3 months at -20 ℃.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.

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