PRODUCT DATA SHEET

Bioworld Technology,Inc.

Recombinant NT-4, Human

Catalog Number: BK0144-50μg Source: Escherichia coli. Quantity: 50μg

Description:

Neurotrophin-4 (NT-4), also known as NT-5, is a neurotrophic factor structurally related to β-NGF, BDNF, and NT-3. Human NT-4 shares 48 - 52% aa sequence identity with human β-NGF, BDNF, and NT-3.Neurotrophins have six conserved cysteine residues that are involved in 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 throμgh 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 28.1kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.

Molecular Weight:

28.1 kDa, a noncovalently linked homodimer,of two 14.0 kDa polypeptide monomers.

Purity:

> 95% by SDS-PAGE and HPLC analyses.

Biological Activity:

ED50 < 5.0 μg/ml, measured by a cell proliferation assay using C6 cells, corresponding to a specific activity of > 2.0× 10ˆ2 units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against 50mM acetic acid.

AA Sequence:

MGVSETAPASRRGELAVCDAVSGWVTDRRTAV-
DLRGREVEVLGEVPAAGGSPLRQYFFETRCK-
ADNAEEGG-
PGAGGGGCRGVDRRHWVSECKAKQSYVRAL-
TADAQGRVGWRWIRIDTACVCTLLSRTGRA

Endotoxin:

< 0.3 EU/μg, determined by LAL method.

Reconstitution:

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

Storage:

Lyophilized recombinant human Neurotrophin-4 (rhNT-4) remains stable up to 6 months at -80 ℃ from date of receipt. Upon reconstitution, rhNT-4 should be 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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