

Product Datasheet

Recombinant NT-4, Mouse (orb1494785)

Description	Neurotrophin-4 (NT-4) is a small secreted cytokine, and belongs to the Neurotrophin (NT) family, which also includes Brain Derived Neurotrophic 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 found in 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 chains of 131 amino acids. A fully biologically active molecule, rmNT-4 has a molecular mass of 14.0 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.
Endotoxins	< 0.2 EU/μg, determined by LAL method.
Preservatives	Lyophilized after extensive dialysis against 50mM acetic acid.
Form/Appearance	Lyophilized after extensive dialysis against 50mM acetic acid.
Storage	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.
Note	For research use only
Application notes	Reconstituted in 50mM acetic acid or ddH ₂ O at 100 μg/mL.
Protein Sequence	MGVSETAPA SRRGELAVCD AVSGWVTD RR TAVDLRGREV EVLGEVPAAG GSPLRQYFFE TRCKAESAGE GGPGVGGGGC RGVDRRHWS ECKAKQSYVR ALTADSQGRV GWRWIRIDTA CVCTLLSRTG RA
Purity	> 95% by SDS-PAGE analysis.

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Source	Escherichia coli.
MW	14.0 kDa, observed by reducing SDS-PAGE.
Expiration Date	6 months from date of receipt.

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