

Active Recombinant Mouse Ntf5 Protein (131 aa)

Cat. No. Ntf5-323N **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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 14.0kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
Species	Mouse
Source	E.coli
Protein Length	131
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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.

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Bio-activity	ED50 < 1 µg/mL, measured by a cell proliferation assay using C6 cells, corresponding to a specific activity of $>1 \times 10^3$ units/mg.
Molecular Mass	14.0 kDa, observed by reducing SDS-PAGE.
AA Sequence	MGVSETAPASRRGELAVCDVSGWVTDRTAVDLRGREVEVLGEVPAAGGSPLRQ YFFETRCKAESAGEGGPGVGGGGCRGVDRRHWSLSECKAKQSYVRALTADSQGRV GWRWIRIDTACVCTLLSRTGRA
Endotoxin	< 0.2 EU/µg, determined by LAL method.
Purity	> 95% by SDS-PAGE analysis.
Storage	Lyophilized recombinant mouse Neurotrophin-4 (rmNT-4) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rmNT-4 remains stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against 50mM acetic acid.
Reconstitution	Reconstituted in 50mM acetic acid or ddH ₂ O at 100 µg/mL.

GENE INFORMATION

Gene Name	Ntf5 neurotrophin 5 [Mus musculus (house mouse)]
Official Symbol	Ntf5
Synonyms	Ntf5; neurotrophin 5; NT4; NT-4; NT-5; Ntf4; NT4/5; Ntf-5; 2900040K06Rik; neurotrophin-4; neurotrophic factor 4
Gene ID	78405

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mRNA Refseq	NM_198190
Protein Refseq	NP_937833
UniProt ID	Q80VU4

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