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Recombinant Mouse NT-3

Description: NT-3 a member of the neurotrophin family that controls survival and differentiation of mammalian neurons. This protein is closely related to both nerve growth factor and brain-derived neurotrophic factor. It may be involved in the maintenance of the adult nervous system, and may affect development of neurons in the embryo when it is expressed in human placenta. NTF3-deficient mice generated by gene targeting display severe movement defects of the limbs. The mature peptide of this protein is identical in all mammals examined including human, pig, rat and mouse.

NT-3 produced in E.coli is a single, non-glycosylated polypeptide chain containing 119 amino acids and having a molecular mass of 13.6 kDa.

Source:	E. coli
Molecular Weight:	13.6 kDa
Purity:	> 97% by SDS-PAGE and RP-HPLC
Endotoxin level:	< 0.1 ng per µg of NT-3
Formulation:	lyophilized fom 0,02% TFA

Biological Activity: The ED₅₀ as determined by the dose-dependant induction of choline acetyl transferase in rat basal forebrain primary septal culture was found between 20-50 ng/ml.

Reconstitution: It is recommended to reconstitute the lyophilized NT-3 in sterile H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized NT-3 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution NT-3 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Avoid repeated freeze/thaw cycles.**

Usage: Mouse NT-3 is offered for research use. Not for drug use. **Not for human use.**

Catalogue number: M10-232

Size: 10 µg

****Please note: always centrifuge product before opening vial!****