



# Recombinant Mouse NT-3

20150227BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>M10-232</b>
Size:	10 µg
Lot. No.:	According to product label

### Sequence

MYAEHKSHRG EYSVCDSESL WVTDKSSAID IRGHQVTVLG  
EIKTGNSPVK QYFYETRCKE ARPVKNGCRG IDDKHWSQC  
KTSQTYVRAL TSENNKLVGW RWIRIDTSCV CALSRKIGRT

### Database References

<b>Protein RefSeq:</b>	NP_032768.1
<b>Uniprot ID:</b>	P20181
<b>mRNA RefSeq:</b>	NM_008742.3

## Scientific Background

<b>Gene-ID (NCBI):</b>	18205
<b>Synonyms:</b>	Ntf3; Nt3; Ntf-3; AI316846; AI835689

NT3 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.

## Product Specifications

<b>Expressed in</b>	E. coli
<b>Purity</b>	> 98% by SDS-PAGE & HPLC analyses
<b>Structural Information</b>	homodimer
<b>Endotoxin level</b>	< 0.1 ng /µg of protein (<1EU/µg).
<b>Formulation</b>	lyophilized
<b>Length (aa):</b>	120
<b>MW:</b>	13.6 kDa

**Biological Activity:** The ED50 as determined by the dose-dependent induction of choline acetyl transferase activity in rat basal forebrain primary septal cell cultures was found to be in the range of 20-50 ng/ml.



**AVOID REPEATED FREEZE AND THAW CYCLES!**