

Native Human NTF3

Cat. No. NTF3-29249TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Neurotrophin 3.
Species	Human
Source	E.coli
Description	The protein encoded by this gene is 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.
Tissue specificity	Brain and peripheral tissues.
Form	Lyophilised
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	The active form of NT-3 is a dimer formed by two identical 119 amino acid subunits th at is held together by strong hydrophobic interactions:YAEHKSHRGEYSVCDESLEW VTDKSSAIDIRGHQVTVLGEIKTGNS PVKQYFYETRCKEARPVKNGCRGIDDKHWN

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SQCKTSQ TYVRALTSENNKLVGWRWIRIDTSCVCALSRKIGRT

**Sequence
Similarities**

Belongs to the NGF-beta family.

GENE INFORMATION

Gene Name

NTF3 neurotrophin 3 [Homo sapiens]

Official Symbol

NTF3

Synonyms

NTF3; neurotrophin 3; neurotrophin-3; NGF2;

Gene ID

4908

mRNA Refseq

NM_001102654

Protein Refseq

NP_001096124

MIM

162660

Uniprot ID

P20783

**Chromosome
Location**

12p13

Pathway

MAPK signaling pathway, organism-specific biosystem; MAPK signaling pathway, conserved biosystem; Neurotrophic factor-mediated Trk receptor signaling, organism-specific biosystem; Neurotrophin signaling pathway, organism-specific biosystem; Neurotrophin signaling pathway, conserved biosystem;

Function

growth factor activity; nerve growth factor binding; neurotrophin receptor binding;

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receptor binding;

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