

Active Recombinant Human NTF3(full-length)

Cat. No. NTF3-012H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human NTF3 (P20783) full-length recombinant protein expressed in Escherichia coli.
Species	Human
Source	Human
Description	Neurotrophin-3 is a protein that in humans is encoded by the NTF3 gene. The protein encoded by this gene, NT-3, is a neurotrophic factor in the NGF (Nerve Growth Factor) family of neurotrophins. It is a protein growth factor which has activity on certain neurons of the peripheral and central nervous system; it helps to support the survival and differentiation of existing neurons, and encourages the growth and differentiation of new neurons and synapses. NT-3 was the third neurotrophic factor to be characterized, after nerve growth factor (NGF) and BDNF.
Theoretical MW (kDa)	13.6
Form	Lyophilized
Preparation Method	Escherichia coli expression system
Purity	μ 98% by SDS-PAGE, μ 98% by HPLC
Endotoxin Level	< 0.1 ng/ug
Activity	The ED50 as determined by the dose-dependent induction of choline acetyl

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transferase activity in rat basal forebrain primary septal cell cultures was found to be in the range of 20-50 ng/mL.

Application

SDS-PAGE

Storage

Store at -20°C on dry atmosphere. After reconstitution with deionized water, store at -20°C. Aliquot to avoid repeated freezing and thawing.

Unitprot ID

P20783

Pathways

Neurotrophin signaling pathway; MAPK signaling pathway

GENE INFORMATION

Gene Name

[NTF3 neurotrophin 3 \[Homo sapiens \]](#)

Official Symbol

NTF3

Synonyms

NTF3; neurotrophin 3; NT3; HDNF; NGF2; NGF-2; MGC129711; neurotrophin-3; NT-3; OTTHUMP00000239132; OTTHUMP00000239133; neurotrophic factor; nerve growth factor 2; NGF-2; NGF2

Gene ID

[4908](#)

mRNA Refseq

[NM_001102654](#)

Protein Refseq

[NP_001096124](#)

MIM

[162660](#)

**Chromosome
Location**

12p13

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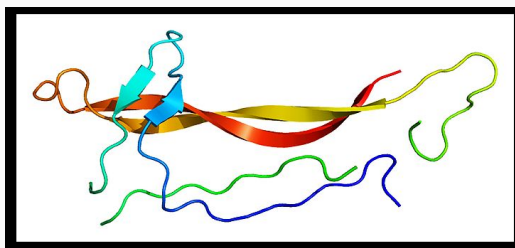
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Function

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

**PDB rendering
based on 1b8k.**



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