

Active Recombinant Human NTF3(139-257aa)

Cat. No. NTF3-011H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human NTF3 (P20783, 139 a.a. - 257 a.a.) partial recombinant protein expressed in Escherichia coli.
Species	Human
Source	Human
ProteinLength	139-257 a.a.
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)	14
Form	Lyophilized
Preparation Method	E. coli expression system
Purity	> 97% by SDS-PAGE and HPLC

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Endotoxin Level	< 0.1 ng/ug (1 EU/ug)
Activity	The ED50 was 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 10-50 ng/mL.
Application	SDS-PAGE
Storage	Store at -20°C on dry atmosphere for 2 years. After reconstitution with deionized water, store at 4°C for 1 month or store at -20°C for 6 months. 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

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MIM	162660
Chromosome Location	12p13
Function	growth factor activity; nerve growth factor binding; neurotrophin receptor binding
PDB rendering based on 1b8k.	