

Active Recombinant Human Neurotrophin 3

Cat. No. NTF3-044H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NT-3 was expressed in E. coli and purified by SDS PAGE and HPLC, 13.6 KDa.
Species	Human
Source	Human
Description	NT-3 is a neurotrophic factor structurally related to beta-NGF, BDNF, and NT-4. These proteins belong to the cysteine-knot family of growth factors that assume stable dimeric structures. NT-3 is expressed by neurons of the central nervous systems and can signal through the trk receptors. NT-3 promotes the growth and survival of nerve and glial cells. The amino acid sequences of human, Mouse and rat NT-3 are identical.
Form	Supplied lyophilized with no additives. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Allow to set for at least 30 minutes, mix well.
Purity	> 98% pure by SDS PAGE and HPLC
Sequence	Region of NT3 protein corresponding to amino acids MYAEHKSHRG EYSVCDSESL WTDKSSAID IRGHQVTVLG EIKTGNSPVK QYFYETRCKE ARPVKNGCRG IDDKHWNSQC KTSQTYVRAL TSENNKLVGW RWIRIDTSCV CALSRKIGRT.
Molecular Mass	13.6 kDa

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Applications	Numerous applications are possible with this product and should be tested by the end user under their own laboratory conditions
Endotoxin Levels	Endotoxin level is less than 0.1 ng per ug (1 EU/ug).
Bioactivity	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.
Storage	Store at 4 deg C until reconstitution. Following reconstitution aliquot and freeze at -20 deg C for long term storage. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name	NTF3 neurotrophin 3 [Homo sapiens]
Official Symbol	NTF3
Synonyms	neurotrophin 3; NT3; HDNF; NGF2; NGF-2; MGC129711; NTF3; NT-3; Nerve growth factor 2; Neurotrophic factor
Gene ID	4908
mRNA Refseq	NM_001102654
Protein Refseq	NP_001096124
MIM	162660
UniProt ID	P20783

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Chromosome Location	12p13
Pathway	MAPK signaling pathway; Neurotrophic factor-mediated Trk receptor signaling; Neurotrophin signaling pathway; Trk receptor signaling mediated by the MAPK pathway; p75(NTR)-mediated signaling
Function	growth factor activity; nerve growth factor binding; neurotrophin receptor binding; receptor binding
PDBrendering based on 1b8k.	