

Recombinant Human Neurotrophin 3, His-tagged

Cat. No. NT3-20H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human neurotrophin 3 encoding the mature human NT-3 (Tyr ¹²⁹ -Thr ²⁵⁷) with 6 His tag on the N-Terminus was expressed in <i>E. Coli</i> . This protein was purified by Ni-NTA column. MW=16 KD.
Species	Human
Source	E.coli
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.
Sequence	Mature human NT-3(Tyr ¹²⁹ - Thr ²⁵⁷)YA EHKSHRGEYS VCDSESLWVT DKSSAIDIRG HQVTVLGEIK TGNSPVKQYF YETRCKEARP VKNGCRGIDD KHWNSQCKTS QTYVRALTSE NNLVGWRWI RIDTSCVCAL SRKIGRT.
Purity	>95% in SDSgel.
Formulation	Lyophilized 100 µg human NT-3 in 50 µl of TBS (20 mM Tris, 50mM NaCl, pH8.0). Carry free.
Reconstitution	Add

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500µl deionized water or TBS to the vial to prepare a working stock solution at 200 µg/mL. Allow to set at least 30 minutes at 4°C, mix well.

Application Cell biology, ELISA.

Storage Store lyophilized protein at -20°C to -70°C. Lyophilized protein is stable for up to 6 months from date of receipt at -20°C to -70°C. Upon reconstitution, this protein can be stored at -20°C for up to a few weeks or at -70°C in a manual defrost freezer for long term storage (six months). Aliquot reconstituted protein to avoid repeated freeze / thaw cycles.

GENE INFORMATION

Gene Name NTF3 neurotrophin 3 [Homo sapiens]

Synonyms NT3; neurotrophin 3; 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

Chromosome Location 12p13

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Pathway	Neurotrophin signaling pathway; MAPK signaling pathway
Function	growth factor activity; nerve growth factor binding; neurotrophin receptor binding

PDB rendering based
on 1b8k.

