

# Recombinant Human NTF4

**Cat. No.** NTF4-29H    **Lot. No.** (See product label)

## SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant human NTF4 protein was expressed in E.coli (81-210 aa).                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>                   | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>            | 81-210 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>              | NTF4, also known as neurotrophin 4, is a member of a family of neurotrophic factors neurotrophins that control survival and differentiation of mammalian neurons. This protein is ubiquitous and less influenced by environmental signals. While knock-outs of other neurotrophins including nerve growth factor, brain-derived neurotrophic factor, and neurotrophin 3 prove lethal during early postnatal development, NTF4-deficient mice only show minor cellular deficits and develop normally to adulthood. |
| <b>Form</b>                     | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 20% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Weight</b>         | 14.1 kDa (131aa)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>                   | > 85% by SDS - PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Concentration</b>            | 1 mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Sequences of amino acids</b> | MGVSETAPAS RRGELAVCDA VSGWVTD RRT AVDLRGREVE VLGEVPAAGG<br>SPLRQYFFET RCKADNAEEG GPGAGGGGCR GVDRRHVVSE CKAKQSYVRA                                                                                                                                                                                                                                                                                                                                                                                                 |

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LTADAQGRVG WRWIRIDTAC VCTLLSRTGR A

**Storage**

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Pathways**

MAPK signaling pathway; Neurotrophin signaling pathway

## GENE INFORMATION

**Gene Name**

NTF4 neurotrophin 4 [ Homo sapiens ]

**Official Symbol**

NTF4

**Synonyms**

NT4; NT-4; NT5; NT-5; NTF5; GLC10; NT-4/5; neurotrophin 5; neurotrophic factor 4; Neurotrophic factor 4; neurotrophic 4; neurotrophic factor 5; neurotrophin 5 (neurotrophin 4/5)

**Gene ID**

4909

**mRNA Refseq**

NM\_006179

**Protein Refseq**

NP\_006170

**MIM**

162662

**UniProt ID**

P34130

**Chromosome Location**

19q13.3

**Function**

growth factor activity

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