

Active Recombinant Human NTF3 Protein

Cat. No. NT3-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NTF3 Protein, Tyr139-Thr257 (K196R), without tag was expressed in Spodoptera frugiperda, Sf 21 (baculovirus).
Species	Human
Source	Insect Cells
ProteinLength	139-257
Description	The protein encoded by this gene is a member of the neurotrophin family, that controls survival and differentiation of mammalian neurons. This protein is closely related to both nerve growth factor and brain-derived neurotrophic factor. It may be involved in the maintenance of the adult nervous system, and may affect development of neurons in the embryo when it is expressed in human placenta. NTF3-deficient mice generated by gene targeting display severe movement defects of the limbs. The mature peptide of this protein is identical in all mammals examined including human, pig, rat and mouse.
Bio-activity	Measured in a cell proliferation assay using BaF mouse pro-B cells transfected with TrkB. The ED50 for this effect is 4-40 ng/mL. The specific activity of Recombinant Human NT-3 is approximately 2082 U/μg, which is calibrated against recombinant human NT-3 Standard.
Molecular Mass	13.7 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

N-terminal Sequence Analysis	Tyr139
Endotoxin	< 0.10 EU/μg of the protein by the LAL method.
Purity	>97%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein.
Reconstitution	Reconstitute at 50 μg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.
Shipping	At ambient temperature.

GENE INFORMATION

Gene Name	NTF3 neurotrophin 3 [Homo sapiens (human)]
Official Symbol	NTF3
Synonyms	NTF3; neurotrophin 3; NT3; HDNF; NGF2; NT-3; NGF-2; neurotrophin-3; nerve growth factor 2; neurotrophic factor
Gene ID	4908

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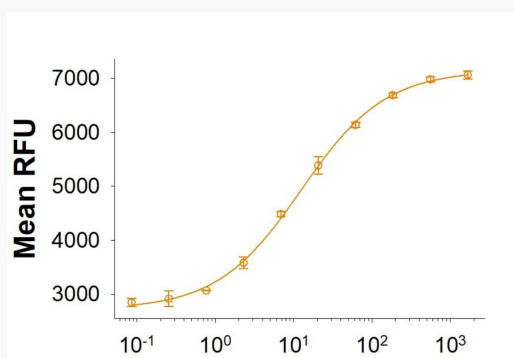
mRNA Refseq [NM_002527](#)

Protein Refseq [NP_002518](#)

MIM [162660](#)

UniProt ID [P20783](#)

Bioactivity



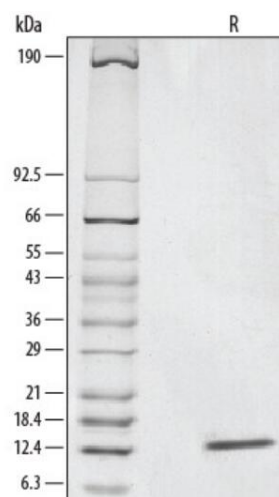
Recombinant Human NT-3 stimulates cell proliferation in the BaF mouse pro-B cell line transfected with TrkB. The ED50 for this effect is 4-40 ng/mL.

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SDS-PAGE



1 µg/lane of Recombinant Human NT-3 was resolved with SDS-PAGE under reducing (R) conditions and visualized by silver staining, showing a single band at 14 kDa.