Active Nerve Growth Factor (NGF) Instruction Manual

SBPA068Mu01

Mus musculus (Mouse)

Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Traits	Freeze-dried powder
Purity	> 90%
Isoelectric Point	9.4
Applications	Cell culture; Activity Assays.
Α ΟΤΙΝΗΤΑΥ ΤΕΩΤ	

ACTIVITY TEST

EPYTDS NVPEGDSVPE AHWTKLQHSL DTALRRARSA PTAPIAARVT GQTRNITVDP RLFKKRRLHS PRVLFSTQPP PTSSDTLDLD FQAHGTIPFN RTHRSKRSST HPVFHMGEFS VCDSVSVWVG DKTTATDIKG KEVTVLAEVN INNSVFRQYF FETKCRASNP VESGCRGIDS KHWNSYCTTT HTFVKALTTD EKQAAWRFIR IDTACVCVLS RKATRRG



A-----B+

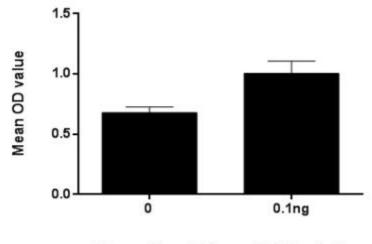
Figure 1. Cell-proliferation of TF-1 cells after stimulated with NGF.4

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(A) TF-1 cells cultured in 1640, stimulated with 0.1ng/ml NGF for 72h; +

(B) Unstimulated TF-1 cells cultured in 1640 for 72h.

Nerve growth factor (NGF) is a neurotrophic factor and neuropeptide primarily involved in the regulation of growth, maintenance, proliferation, and survival of certain target neurons. NGF is also involved in pathways besides those regulating the life cycle of neurons. a nerve growth factor(NGF)-dependent TF-1 subclone cell line suitable for determination of bioactivity of recombinant mouse NGF, then TF-1 cells were seeded into triplicate wells of 96-well plates at a density of 5,000 cells/well with 1% serum standard 1640 contain various concentrations of recombinant mouse NGF. After incubated for 72h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10µl of CCK-8 solution was added to each well of the plate, then the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37°C. Proliferation of TF-1 cells after incubation with TF-1 for 72h observed by inverted microscope was shown in Figure1. Cell viability was assessed by CCK-8 assay after incubation with recombinant NGF for 72h. The result was shown in Figure2. It was obvious that NGF significantly increased cell viability of TF-1 cells.



Recombinant Mouse NGF (ng/ml)

Figure 2. Cell proliferation of TF-1 cells after stimulated with NGF.

USAGE

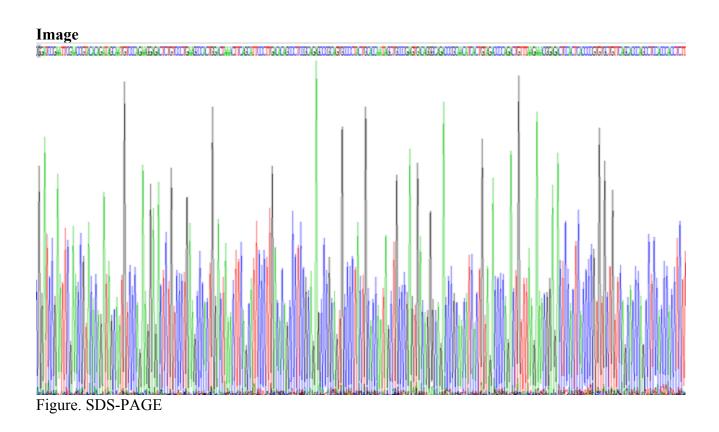
Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

STORAGE

Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at - 80°C for 12 months.

STABILITY

The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



[IMPORTANT NOTE]

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.