

Nerve Growth Factor (NGF) Active Protein | NGF active protein

Active Nerve Growth Factor (NGF)

CATALOG # AAA150972	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

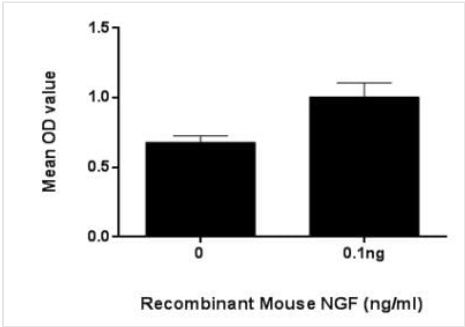
Nerve Growth Factor (NGF); Active Nerve Growth Factor (NGF); NGF/Nerve Growth Factor; NGFB; Beta-NGF; HSAN5; NGF-B; Beta-Nerve Growth Factor; NGF active protein

PRODUCT SPECIFICATIONS

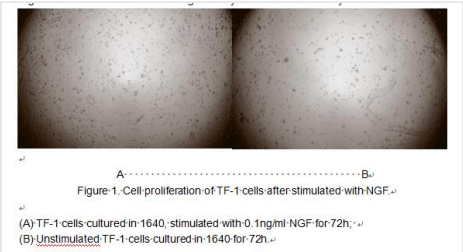
Host	E Coli
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Sequence	Glu85~Gly3 07
Applicable Applications for NGF active protein	Activity Assay, Cell Culture
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Tag	N-terminal His Tag
Biological Activity	Active
Expression System	Prokaryotic expression
Organism Species	Mouse
Isoelectric Point	9.4
Subcellular Location	Secreted
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0mg/mL. Do not vortex.
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months Stable for 12 months if correctly stored. 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 degree 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.

EPYTDS NVPEGDSVPE
AHWTKLQHSL DTALRRARSA PTAPIAARVT GQTRNITVDP RLFKKRRLHS
PRVLFSTQPP PTSSDTLDD FQAHGTIPFN RTHRSKRSST HPVFHMGFS
VCDSVSVWVG DKTATDIDG KEVTVLAENV INNSVFRQYF FETKCRASNP
VESGCRGIDS KHWNSYCTTT HTFVKALTTD EKQAARFIR IDTACVCVLS
RKATRRG

Sequence

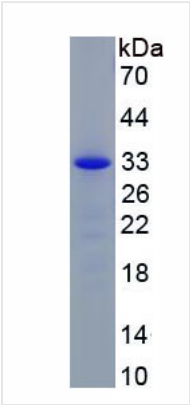


Bioactivity
Figure 2. Cell proliferation of TF-1 cells after stimulated with NGF.

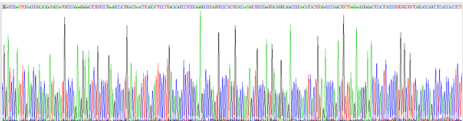


Bioactivity

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, 10ul 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?. 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.



SDS-PAGE
SDS-PAGE



Sequence

Gene Sequencing (extract

ADDITIONAL INFORMATION

Related Product Information for NGF active protein	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, 10ul 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 37degree 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.
Product Categories/Family for NGF active protein	Cytokine; Neuro science; Active, prokaryotic recombinant

NCBI AND UNIPROT INFORMATION

NCBI GI #	7305313
NCBI GeneID	18049
NCBI Accession #	NP_038637.1
NCBI GenBank Nucleotide #	NP_038637.1
UniProt Accession #	Q6LDU8; P01139
Molecular Weight	13.6; 27.2
NCBI Official Full Name	beta-nerve growth factor isoform A
NCBI Official Synonym Full Names	nerve growth factor
NCBI Official Symbol	Ngf
NCBI Official Synonym Symbols	Ngfb; beta-NGF
NCBI Protein Information	beta-nerve growth factor
UniProt Protein Name	Beta-nerve growth factor
UniProt Gene Name	Ngf

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/nerve-growth-factor-ngf/150972>