

Rat NGF protein, His tag (active)

Cat. No. GTX00371-pro

Applications Functional Assay**Species** Rat**Package**

10 µg

Applications

Application Note

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 NGF (rhNGF), then TF-1 cells were seeded into triplicate wells of 96-well plates at a density of 5000 cells/well with 1% serum standard RPMI-1640 contain various concentrations of recombinant rat NGF. After incubated for 72h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 µl 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.

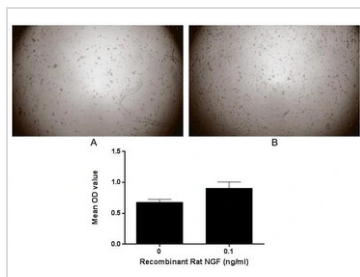
Observed MW (kDa) 33 kDa.

Properties

Form Lyophilized powder**Buffer** Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.**Preservative** ProClin 300**Storage** For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.**Region/Sequence** N-terminal His-Tag; Glu19~Gly241+LEHHHHHH (NP_001263984.1)**Expression System** E. coli**Purity** > 90%**Endotoxin** < 1 EU/µg**Conjugation** Unconjugated**Note** For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

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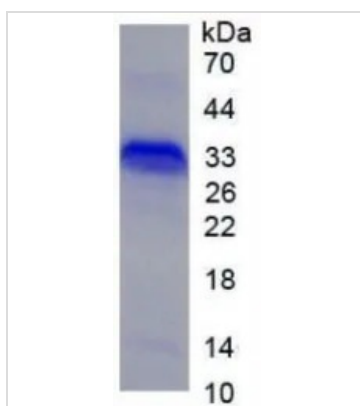
Date 2026 / 01 / 01 Page 1 of 2

DATA IMAGES

GTx00371-pro Functional Assay Image

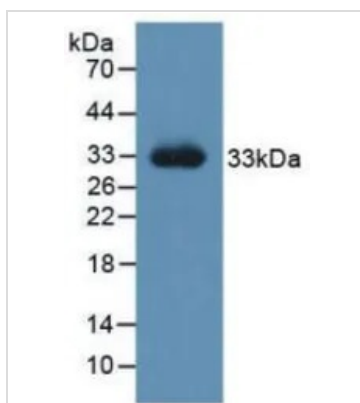
Cell proliferation effect of GTx00371-pro Rat NGF protein (active). Cell viability was measured by Cell Counting Kit-8 (CCK-8).

(A) Unstimulated TF-1 cells cultured in RPMI-1640 for 72hrs.

(B) TF-1 cells cultured in RPMI-1640, stimulated with 0.1 ng/ml NGF for 72hrs.


GTx00371-pro Image

SDS-PAGE analysis of GTx00371-pro Rat NGF protein (active).


GTx00371-pro Image

WB analysis of GTx00371-pro Rat NGF protein (active).



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