

Human ARMET protein, His tag (active)

Cat. No. GTX00139-pro

Applications Functional Assay

Species Human

Package

10 µg

Applications

Application Note

MANF (Mesencephalic astrocyte-derived neurotrophic factor) is a prosurvival protein that protects the cells when applied intracellularly in vitro or extracellularly in vivo. Recently, MANF has also been proven to inhibit cell proliferation and ER stress-induced cell death and also affects cell size and morphology under certain conditions. Thus the bioactivity of human recombinant MANF were detected using U87-MG. Briefly, U87-MG cells were seeded into triplicate wells of 96-well plates at a density of 2000 cells/well and allowed to attach overnight, then the medium was replaced with serum-free standard DMEM prior to the addition of various concentrations of MANF. After incubated for 48h, cells were observed by inverted microscope that MANF inhibited cell proliferation of U87-MG and affected cell size and morphology.

Observed MW (kDa) 22 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; Gly28~Leu182 (NP_006001.4)

Expression System E. coli

Purity > 90%

Endotoxin < 1 EU/µg

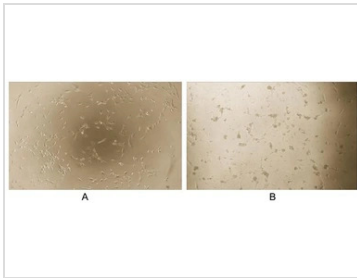
Conjugation Unconjugated

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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DATA IMAGES

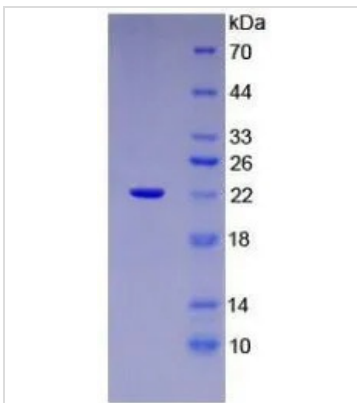


GTx00139-pro Functional Assay Image

Cell suppression effect of GTx00139-pro Human ARMET protein (active).

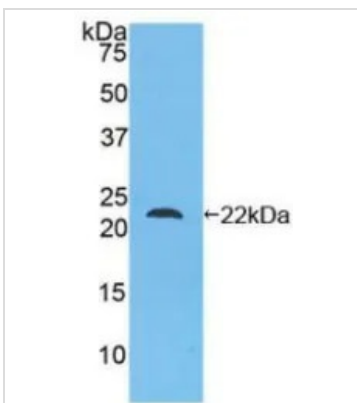
(A) Unstimulated U87-MG cells cultured in DMEM for 48hrs.

(B) U87-MG cells cultured in DMEM, stimulated with 0.01 ng/ml MANF for 48hrs.



GTx00139-pro Image

SDS-PAGE analysis of GTx00139-pro Human ARMET protein (active).



GTx00139-pro Image

WB analysis of GTx00139-pro Human ARMET protein (active).



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