

Human FNDC5 protein, His tag (active)

Cat. No. GTX00149-pro

Application	Functional Assay
Species	Human

Package
10 µg

APPLICATION

Application Note

Fibronectin type III domain-containing protein 5, the precursor of irisin, is a protein that is encoded by the FNDC5 gene. It was reported that FNDC5 significantly decreased cell number, migration and viability through apoptosis in malignant MDA-MB-231 cells. Thus MDA-MB-231 cells were seeded overnight at a density of 5000 cells/well, and treated with or without various concentrations of FNDC5 for 48h, then MDA-MB-231 cells were observed by inverted microscope and cell viability 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 measure the absorbance at 450nm using a microplate reader after incubating the plate for 1-4 hours at 37°C. Cell apoptosis of MDA-MB-231 cells after incubation with FNDC5 for 48h observed by inverted microscope. FNDC5 significantly decreased cell viability of MDA-MB-231 cells, and the ED₅₀ for this effect is typically 1.72-2.70 nM.

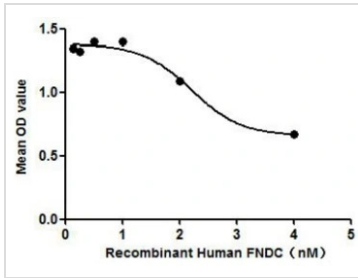
Observed MW 18 kDa.

PROPERTIES

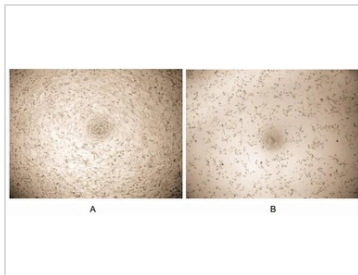
Form	Lyophilized powder
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.
Preservative	ProClin 300
Storage	For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.
Region/Sequence	N-terminal His-Tag; Leu2~Ile137 (NP_001165411.2)
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

GTX00149-pro Functional Assay Image

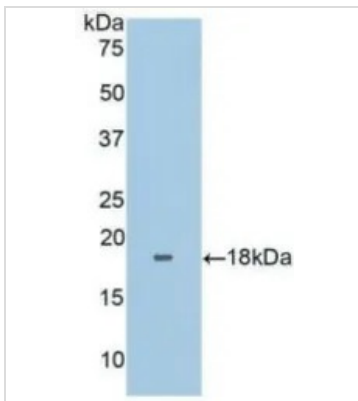
The dose effect curve of GTX00149-pro Human FNDC5 protein (active) on MDA-MB-231 cells. After incubation of Human FNDC5 protein (active) for 48 hrs, cell viability was measured by Cell Counting Kit-8 (CCK-8).


GTX00149-pro Functional Assay Image

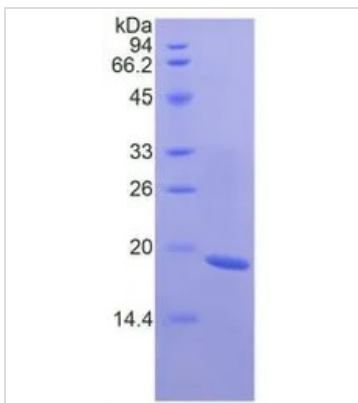
Cell apoptosis effect of GTX00149-pro Human FNDC5 protein (active).

(A) Unstimulated MDA-MB-231 cells cultured in DMEM for 48hrs.

(B) MDA-MB-231 cells cultured in DMEM, stimulated with 4 nM FNDC5 for 48hrs.


GTX00149-pro Image

WB analysis of GTX00149-pro Human FNDC5 protein (active).


GTX00149-pro Image

SDS-PAGE analysis of GTX00149-pro Human FNDC5 protein (active).



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