

Active Recombinant Mouse Mia protein, His-tagged

Cat. No. Mia-1242M Lot. No. (See product label)

SPECIFICATION

Product Overview	Active Recombinant Mouse Mia protein(Q61865)(23-130 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Mouse
Source	E.coli
ProteinLength	23-130 aa
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Melanoma inhibitory activity (MIA), also known as cartilage-derived retinoic acid-sensitive protein (CD-RAP), is a 12-kDa protein that is secreted from both chondrocytes and malignant melanoma cells. MIA has been reported to have effects on cell growth and adhesion, and it may play a role in melanoma metastasis and cartilage development. In the presence of MIA, we observed enhanced migratory ability of melanocytic cells, induction of melanoma-associated genes as well as inhibition of apoptosis due to anoikis. To test the effect of MIA1 on cell apoptosis, A375 cells were seeded into triplicate wells of 96-well plates at a density of 4,000 cells/well and allowed to attach overnight, then the medium was replaced with various concentrations of recombinant mouse MIA1 diluted with 5% serum standard DMEM. After incubated for 48h, cells were observed by inverted microscope and cell viability was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 μ of CCK-8 solution was added to each well of the plate, then the absorbance at 450 nm was measured using

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a microplate reader after incubating the plate for 1-4 hours at 37°C. Apoptosis of A375 cells after incubation with MIA1 for 48h observed by inverted microscope was shown. The result of cell viability assessed by CCK-8 was shown. It was obvious that MIA1 significantly decreased cell viability of A375 cells. The ED50 of recombinant mouse MIA1 is 5.94 ug/ml.

Molecular Mass 16.0kDa

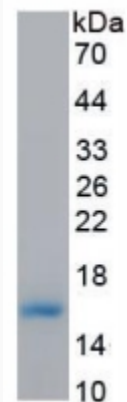
Endotoxin <1.0EU per 1µg (determined by the LAL method).

Purity > 95%

Storage Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.

Reconstitution Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

SDS-PAGE

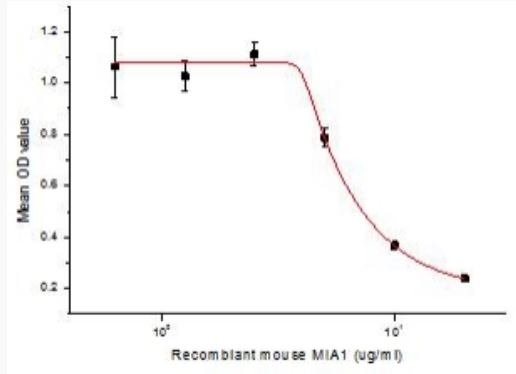


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