Active Recombinant Mouse Ifna1 protein, His-GST-tagged

Cat. No. Ifna1-638M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Mouse Ifna1 protein(P01572)(24~189 aa), fused with N-terminal His tag and GST tag, was expressed in E.coli.
Species	Mouse
Source	E.coli
ProteinLength	24-189 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Interferon-alpha (IFNa), also known as leukocyte interferon, represents a group of related but distinct proteins that share over 95% amino acid sequence homology. They are members of the type I interferon family which share a common cell surface receptor composed of two subunits. IFN-α has both anti-viral and immunomodulatory activities on target cells. To test the effect of IFNa on cell apoptosis, A549 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 IFNa diluted with 5% serum standard DMEM. After incubated for 72h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 μof CCK-8 solution was added to each well of the plate, then the absorbance at 450 nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37°C.

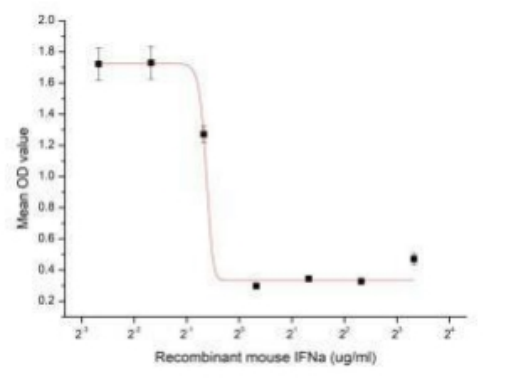
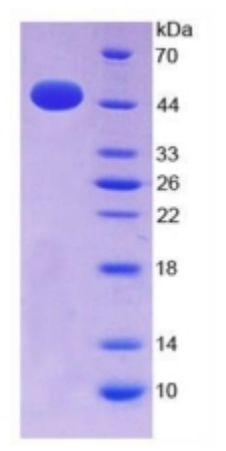
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	Apoptosis of A549 cells after incubation with IFNa for 72h observed by inverted microscope was shown. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with recombinant mouse IFNa for 72h. It was obvious that IFNa significantly decreased cell viability of A549 cells. The ED50 of recombinant mouse IFNa is 0.65 ug/ml.
Molecular Mass	47.8kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method).
Purity	> 95% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. 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.

GENE INFORMATION

Gene Name	Ifna1 interferon alpha 1 [Mus musculus]
Official Symbol	Ifna1
Synonyms	IFNA1; interferon alpha 1; interferon alpha-1; IFN-alpha-1; interferon alpha family gene 1; Ifa1;
Gene ID	15962
mRNA Refseq	NM_010502

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Protein Refseq	NP_034632
Activity	
SDS-PAGE	

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