

## 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- $\alpha$  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  $\mu$ of 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 IFN $\alpha$  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 IFN $\alpha$  for 72h. It was obvious that IFN $\alpha$  significantly decreased cell viability of A549 cells. The ED50 of recombinant mouse IFN $\alpha$  is 0.65 ug/ml.

<b>Molecular Mass</b>	47.8kDa
<b>Endotoxin</b>	<1.0EU per 1 $\mu$ g (determined by the LAL method).
<b>Purity</b>	> 95% as determined by SDS-PAGE.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
<b>Reconstitution</b>	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Ifna1 interferon alpha 1 [ Mus musculus ]</a>
<b>Official Symbol</b>	<a href="#">Ifna1</a>
<b>Synonyms</b>	IFNA1; interferon alpha 1; interferon alpha-1; IFN-alpha-1; interferon alpha family gene 1; lfa1;
<b>Gene ID</b>	<a href="#">15962</a>
<b>mRNA Refseq</b>	<a href="#">NM_010502</a>

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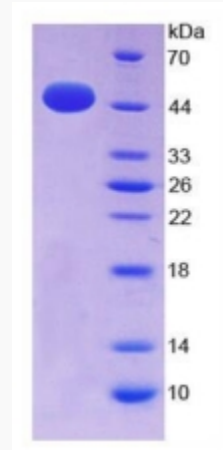
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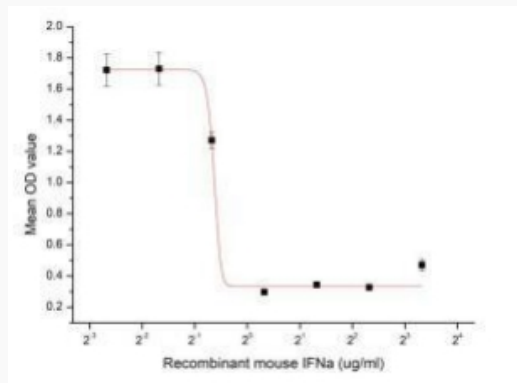
Protein Refseq

NP\_034632

SDS-PAGE



Activity



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