

## Active Recombinant Pig IFNA1 protein, His-tagged

**Cat. No.** IFNA1-2740P    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Active Recombinant Pig IFNA1 protein(P49879)(24~189 aa), fused with N-terminal His tag, was expressed in HEK293.
<b>Species</b>	Pig
<b>Source</b>	HEK293
<b>ProteinLength</b>	24-189 aa
<b>Form</b>	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
<b>Bio-activity</b>	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 5,000 cells/well and allowed to attach overnight, then the medium was replaced with various concentrations of recombinant pig 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. Apoptosis of

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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 IFN $\alpha$  for 72h. It was obvious that IFN $\alpha$  significantly decreased cell viability of A549 cells. The ED50 of recombinant pig IFN $\alpha$  is 4.83 ug/ml

<b>Molecular Mass</b>	20.7kDa
<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 (pH7.6) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

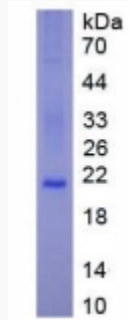
<b>Gene Name</b>	IFNA1 interferon alpha-1 [ <i>Sus scrofa</i> ]
<b>Official Symbol</b>	IFNA1
<b>Synonyms</b>	IFNA1; interferon alpha-1; IFN-alpha-6; interferon alpha 1; interferon-alpha-6; IFN1@; IFN-ALPHA-1;
<b>Gene ID</b>	397686
<b>mRNA Refseq</b>	NM_214393
<b>Protein Refseq</b>	NP_999558

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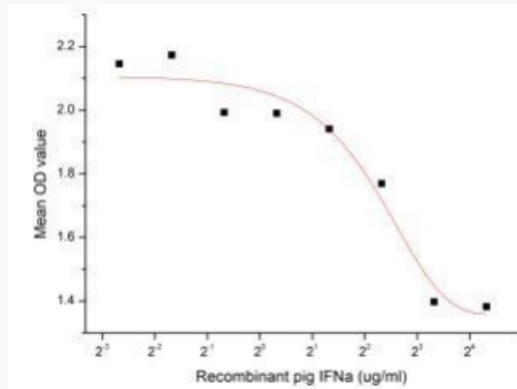
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**SDS-PAGE**



**Activity**



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