

# Active Recombinant Chicken IFNA1 protein, His-GST-tagged

Cat. No. IFNA1-634C    Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Active Recombinant Chicken IFNA1 protein(P42165)(47~191 aa), fused with N-terminal His tag and GST tag, was expressed in E.coli.
<b>Species</b>	Chicken
<b>Source</b>	E.coli
<b>ProteinLength</b>	47-191 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 4,000 cells/well and allowed to attach overnight, then the medium was replaced with various concentrations of recombinant chicken 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.

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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 chicken IFNa for 72h. It was obvious that IFNa significantly decreased cell viability of A549 cells. The ED50 of recombinant chicken IFNa is 5.13 ug/ml.

**Molecular Mass** 47.0kDa

**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.

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