

Active Recombinant Chicken IFNA protein, His-GST-tagged

Cat. No. IFNA-1128C **Lot. No.** (See product label)

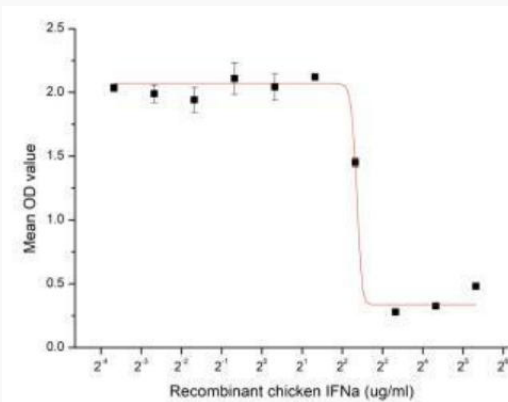
SPECIFICATION

Product Overview	Active Recombinant Chicken IFNA protein(47-191 aa), fused with N-terminal His tag and GST tag, was expressed in E.coli.
Species	Chicken
Source	E.coli
ProteinLength	47-191 aa
Form	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.
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 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 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. Apoptosis of A549 cells after incubation with IFNa for 72h observed by inverted

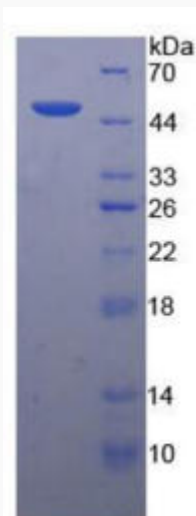
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	microscope.																						
Molecular Mass	47.0kDa																						
Endotoxin	<1.0EU per 1µg (determined by the LAL method).																						
Purity	>95%																						
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 month.																						
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.																						
Activity	 <table border="1"> <caption>Approximate data points from the activity graph</caption> <thead> <tr> <th>Recombinant chicken IFNa (ug/ml)</th> <th>Mean OD value</th> </tr> </thead> <tbody> <tr><td>2⁴</td><td>2.0</td></tr> <tr><td>2⁵</td><td>2.0</td></tr> <tr><td>2⁶</td><td>1.9</td></tr> <tr><td>2⁷</td><td>2.1</td></tr> <tr><td>2⁸</td><td>2.0</td></tr> <tr><td>2⁹</td><td>2.1</td></tr> <tr><td>2^{7.5}</td><td>1.4</td></tr> <tr><td>2^{8.5}</td><td>0.3</td></tr> <tr><td>2^{9.5}</td><td>0.3</td></tr> <tr><td>2¹⁰</td><td>0.5</td></tr> </tbody> </table>	Recombinant chicken IFNa (ug/ml)	Mean OD value	2 ⁴	2.0	2 ⁵	2.0	2 ⁶	1.9	2 ⁷	2.1	2 ⁸	2.0	2 ⁹	2.1	2 ^{7.5}	1.4	2 ^{8.5}	0.3	2 ^{9.5}	0.3	2 ¹⁰	0.5
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