

Datasheet: PAP004

Description:	RECOMBINANT CHICKEN INTERFERON ALPHA
Name:	IFN ALPHA
Other names:	INTERFERON ALPHA
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	50 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA			■	
Functional Assays	■			

Where this protein has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Chicken
Product Form	Purified recombinant protein expressed in <i>E.coli</i> - liquid.
Preparation	Recombinant protein prepared from <i>E.coli</i>
Source	E.coli
Buffer Solution	0.05M Sodium Acetate 1M Sodium Chloride 0.01M Tris-HCl 2M Urea 10mM Beta-Mercaptoethanol
Preservative Stabilisers	None present
Approx. Protein Concentrations	Total protein concentration 1.0 mg/ml

**External Database
Links**

UniProt:

[P42165](#)

[Related reagents](#)

Entrez Gene:

[396398](#)

IFNA3

[Related reagents](#)

Product Information

Recombinant Chicken interferon alpha (IFN alpha) shares structural and biological properties with mammalian IFN1. Recombinant chicken IFN alpha (rChIFNa) has been shown to act as a highly potent anti-viral agent *in vitro* ([Schultz, U. *et al.* 1995](#)). rChIFNa also resulted in a noticeable delay in the progression of tumors in CC progressor chickens infected with Rous Sarcoma Virus, when administered intravenously ([Plachy, J. *et al.* 1999](#)).

Recombinant chicken interferon alpha is the immunogen used to produce the polyclonal Rabbit anti Chicken [interferon alpha antibody](#).

**Protein Molecular
Weight**

19 kD

Activity

1x10⁷units/mg

Purity

>85% by Ni chelate chromatography

References

1. Schultz, U. *et al.* (1995) Recombinant chicken interferon: a potent antiviral agent that lacks intrinsic macrophage activating factor activity. [Eur J Immunol. 25 \(3\): 847-51.](#)
2. Schultz, U. *et al.* (1995) Recombinant chicken interferon from *Escherichia coli* and transfected COS cells is biologically active. [Eur J Biochem. 229 \(1\): 73-6.](#)
3. Plachy, J. *et al.* (1999) Protective effects of Type I and Type II interferons toward Rous Sarcoma Virus-induced tumors in chickens. [Virology. 256: 85-91.](#)
4. Alamares, J.G. *et al.* (2010) The interferon antagonistic activities of the V proteins from two strains of Newcastle disease virus correlate with their known virulence properties. [Virus Res. 147 \(1\): 153-7.](#)
5. Jiang, H. *et al.* (2011) Chicken interferon alpha pretreatment reduces virus replication of pandemic H1N1 and H5N9 avian influenza viruses in lung cell cultures from different avian species. [Virol J. 8: 447.](#)
6. Smith, S.E. *et al.* (2013) Chicken interferon-inducible transmembrane protein 3 restricts influenza viruses and lyssa viruses *in vitro*. [J Virol. 87 \(23\): 12957-66.](#)
7. Lostalé-seijo, I. *et al.* (2016) Interferon induction by avian reovirus. [Virology. 487: 104-11.](#)
8. Lostalé-seijo, I. *et al.* (2016) Response of Three Different Viruses to Interferon Priming and Dithiothreitol Treatment of Avian Cells. [J Virol. 90 \(18\): 8328-40.](#)
9. Deng, L. *et al.* (2016) Characterization and functional studies of fowl adenovirus 9 dUTPase. [Virology. 497: 251-61.](#)

Further Reading

1. Schwarz, H. *et al.* (2004) Synthesis of IFN-beta by virus-infected chicken embryo cells demonstrated with specific antisera and a new bioassay. [J Interferon Cytokine Res. 24 \(3\): 179-84.](#)

Storage Store at -20°C only.
Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the protein.
This product should be stored undiluted.
Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #20481 available at:
<https://www.bio-rad-antibodies.com/SDS/PAP00420481>

Regulatory For research purposes only

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
'M433680:241118'

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