

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>
Buffer Solution	0.05M Sodium Acetate 1M Sodium Chloride 2M Urea 10mM Beta-Mercaptoethanol
Preservative Stabilisers	None present
Approx. Protein Concentrations	Total protein concentration 1.0mg/ml
External Database Links	<p>UniProt: P42165 Related reagents</p> <p>Entrez Gene: 396398 IFNA3 Related reagents</p>

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 tumours 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	19kD
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Activity	1x10 ⁷ units/mg
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Purity	>85% by Ni chelate chromatography
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References	<ol style="list-style-type: none">Schultz, U. <i>et al.</i> (1995) Recombinant chicken interferon: a potent antiviral agent that lacks intrinsic macrophage activating factor activity. Eur J Immunol. 25 (3): 847-51.Plachy, J. <i>et al.</i> (1999) Protective effects of Type I and Type II interferons toward Rous Sarcoma Virus-induced tumors in chickens. Virology. 256: 85-91.Schwarz, H. <i>et al.</i> (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.Schultz, U. <i>et al.</i> (1995) Recombinant chicken interferon from <i>Escherichia coli</i> and transfected COS cells is biologically active. Eur J Biochem. 229 (1): 73-6.Jiang, H. <i>et al.</i> (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.Smith, S.E. <i>et al.</i> (2013) Chicken interferon-inducible transmembrane protein 3 restricts influenza viruses and lyssa viruses <i>in vitro</i>. J Virol. 87 (23): 12957-66.Alamares, J.G. <i>et al.</i> (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.Lostalé-Seijo Irene <i>et al.</i> (2016) Interferon induction by avian reovirus Virology. 487: 104-111.Lostalé-Seijo I <i>et al.</i> (2016) Response of Three Different Viruses to Interferon Priming and Dithiothreitol Treatment of Avian Cells. J Virol. Jul 20. pii: JVI.01175-16. [Epub ahead of print]Deng, L. <i>et al.</i> (2016) Characterization and functional studies of fowl adenovirus 9 dUTPase. Virology. 497: 251-61.
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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.
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Shelf Life	3 months from date of despatch.
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Health And Safety Information	Material Safety Datasheet documentation #10173 available at: 10173: https://www.bio-rad-antibodies.com/uploads/MSDS/10173.pdf
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Regulatory	For research purposes only
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