Interferon Alpha (IFNa) ELISA Kit for Chicken

PRODUCT OVERVIEW

Product Name	Interferon Alpha (IFNa), ELISA Kit
Full Product Name	Chicken Interferon Alpha (IFNa) Instant ELISA Kit
Product Gene Name	IFNa elisa kit
Product Synonym Names	IFNA1; IFL; LeIF D; IFN; IFN-Alpha; IFNA13; IFN-A; IFNAP22; IFN-Alpha 1b; Interferon Alpha 1b; Interferon, Leukocytic; IFN, Leukocyte; Interferon alpha-D
Species Reactivity	Chicken
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	15.6-1,000pg/mL
Sensitivity	5.4pg/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of Instant Interferon Alpha (IFNa). No significant cross-reactivity or interference between Instant Interferon Alpha (IFNa) and analogues was observed.
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.
Molecular Weight	22,116 Da
3D Structure	ModBase 3D Structure for P42165
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Instant Interferon Alpha (IFNa) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Instant Interferon Alpha (IFNa) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Product Categories/Family for IFNa elisa kit	Cytokine; Infection immunity
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.

Related Product Information for IFNa elisa kit	The test principle applied in this kit is enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Instant Interferon Alpha (IFNa). Standards or samples and HRP-labeled detection antibody specific to Instant Interferon Alpha (IFNa) (Detection Reagent A) are then added to the appropriate microtiter plate wells. Next, TMB substrate solution is added, only those wells that contain Instant Interferon Alpha (IFNa), and HRP-labeled detection antibody will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of Instant Interferon Alpha (IFNa) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of IFNa elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IFNa purchase	MBS2087090 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Interferon Alpha (IFNa) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing IFNa. The ELISA analytical biochemical technique of the MBS2087090 kit is based on IFNa antibody-IFNa antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect IFNa antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, IFNa. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IFNa. It may not necessarily be applicable to this product.

NCBI GI #	45382199
NCBI GeneID	396398
NCBI Accession #	NP_990758.1
UniProt Primary Accession #	P42165
UniProt Related Accession #	P42165; Q90872
GenBank Nucleotide #	NM_205427.1
NCBI Official Full Name	interferon type A1/A2
NCBI Official Synonym Full Names	interferon
NCBI Official Symbol	IFNA3
NCBI Official Synonym Symbols	IFNA; IFNA1; IFNA2; IFNA6; IFN-alpha; IFN-gamma
UniProt Protein Name	Interferon type A1/A2
UniProt Gene Name	IFNA1
NCBI Protein Information	interferon type A1/A2
UniProt Comments for IFNa	Has antiviral activities.
Research Articles on IFNa	**1.** Data suggest that down-regulation of circular viral DNA transcription is primary mechanism of IFN-alpha against duck hepatitis B virus; this process requires protein biosynthesis.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

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