



Chicken Interleukin 8(IL-8) ELISA Kit

Product Code	CSB-E14191C
Protein Biological Process 2	chemokine
Abbreviation	CXCL8
Protein Biological Process 1	Immunity
Target Name	interleukin 8
Uniprot No.	P08317
Alias	CXCL8, GCP-1, GCP1, LECT, LUCT, LYNAP, MDNCF, MONAP, NAF, NAP-1, NAP1, T cell chemotactic factor beta-thromboglobulin-like protein chemokine (C-X-C motif) ligand 8 emotakin granulocyte chemotactic
Product Type	ELISA Kit
Immunogen Species	Gallus gallus (Chicken)
Protein Biological Process 3	Chemotaxis
Sample Types	serum, plasma, tissue homogenates
Detection Range	1.56 pg/mL-400 pg/mL
Sensitivity	0.78 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Immunology
Gene Names	CXCL8
Tag Info	quantitative
Protein Description	Competitive

Description

This Chicken Interleukin 8 (IL-8) ELISA Kit is used for detecting and quantifying IL-8 protein in your chicken samples. IL-8, a chemokine involved in inflammatory responses and infection, plays a crucial role in the immune system. Our ELISA kit is designed specifically for the detection of IL-8 in serum, plasma, and tissue homogenates of Gallus gallus (chicken) samples.

With a detection range of 1.56 pg/mL-400 pg/mL and a sensitivity of 0.78 pg/mL, this ELISA kit offers precise and accurate measurement of IL-8 levels in your



samples. The assay principle is quantitative and competitive, making it highly specific and reliable. Assay time ranges from 1-5 hours, depending on the sample volume used (50-100ul), and detection wavelength is set at 450 nm. This kit is ideal for researchers in the field of immunology, as it can help in understanding the role of IL-8 in the immune response of chickens.

The Chicken IL-8 ELISA Kit has been validated and cited in more than 6 research papers, making it a trusted tool for your research needs.

Target Details

This protein is a member of the CXC chemokine family. This chemokine is one of the major mediators of the inflammatory response. This chemokine is secreted by several cell types. It functions as a chemoattractant, and is also a potent angiogenic factor. This gene is believed to play a role in the pathogenesis of bronchiolitis, a common respiratory tract disease caused by viral infection. This gene and other ten members of the CXC chemokine gene family form a chemokine gene cluster in a region mapped to chromosome 4q.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of chicken IL-8 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:1	Average %	102
	Range %	97-106
1:2	Average %	88
	Range %	84-93
1:4	Average %	104
	Range %	99-109
1:8	Average %	103
	Range %	99-106

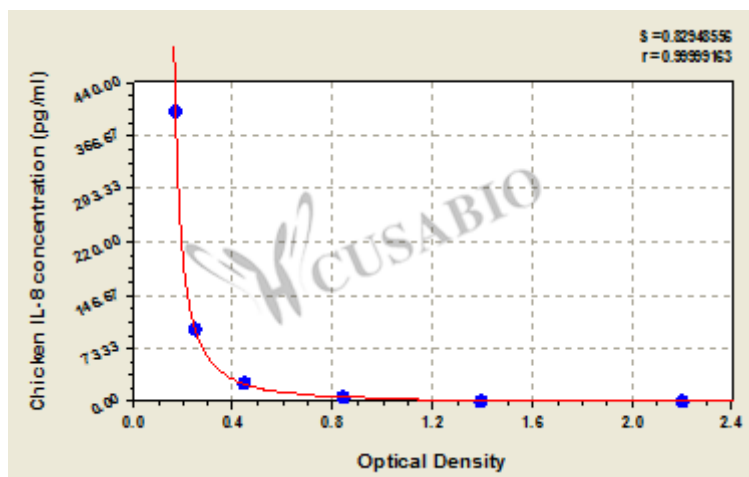
Recovery

The recovery of chicken IL-8 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	98	94-102
EDTA plasma (n=4)	91	85-96

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average
400	0.187	0.183	0.185
100	0.259	0.267	0.263
25	0.471	0.452	0.462
6.25	0.862	0.843	0.853
1.56	1.410	1.398	1.404
0	2.251	2.159	2.205