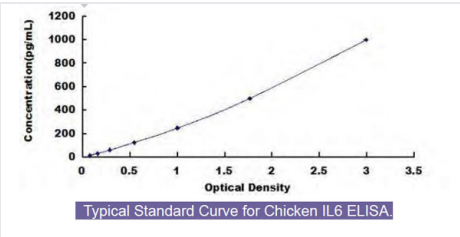
Interleukin 6 (IL6) ELISA Kit for Chicken

PRODUCT OVERVIEW

Product Name	Interleukin 6 (IL6), ELISA Kit
Full Product Name	Chicken Interleukin 6 (IL6) ELISA Kit
Product Gene Name	IL6 elisa kit
Product Synonym Names	MGI2-A; MGI2A; HGF; BSF2; HSF; IFNB2; B-Cell Stimulatory Factor-2; Hybridoma/Plasmacytoma Growth Factor; Hepatocyte Stimulating Factor; Cytotoxic T-Cell Differentiation Factor
Species Reactivity	Chicken
Assay Type	Quantitative Sandwich
Samples	Chicken serum, plasma, tissue homogenates, cell lysates, cell culture supernates or other biological fluids
Detection Range	15.6-1000pg/mL
Sensitivity	< 5.8pg/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of IL6. No significant cross-reactivity or interference between IL6 and analogues was observed.
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level IL6 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level IL6 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	26,790 Da
3D Structure	ModBase 3D Structure for Q90YI0
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for IL6 elisa kit	Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to IL6. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to IL6. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain IL6, biotin-conjugated antibody and enzyme-conjugated Avidin 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 IL6 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of IL6 in chicken serum, plasma, tissue homogenates, cell lysates, cell culture supernates or other biological fluids.
Other Notes	Small volumes of IL6 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 IL6 purchase	MBS451609 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Interleukin 6 (IL6) 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 IL6. The ELISA analytical biochemical technique of the MBS451609 kit is based on IL6 antibody-IL6 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect IL6 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, IL6. 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(%).



Typical Testing Data/Standard Curve (for reference only) of IL6 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL6. It may not necessarily be applicable to this product.

NCBI GI #	45382889
NCBI GeneID	395337
NCBI Accession #	NP_989959.1
UniProt Primary Accession #	Q90YI0
UniProt Related Accession #	Q90YI0
GenBank Nucleotide #	NM_204628.1
NCBI Official Full Name	interleukin-6
NCBI Official Synonym Full Names	interleukin 6
NCBI Official Symbol	IL6
NCBI Official Synonym Symbols	IL-6; CHIL-6; interleukin-6
UniProt Protein Name	Interleukin-6
Protein Family	Interleukin
UniProt Gene Name	IL6
UniProt Synonym Gene Names	ChIL-6; IL-6
NCBI Protein Information	interleukin-6
UniProt Comments for IL6	Cytokine with a wide variety of biological functions. It is a potent inducer of the acute phase response ().
Research Articles on IL6	**1.** The results showed that the expression levels of IL-6, IL-8, TNF-alpha, and NF-kappaB which seemed to be a critical mediator in the inflammatory response tended to increase in the birds chronically treated with As2O3. However, the mRNA expression levels of IL-4, IL-12beta, and IL-1beta were decreased in the experiment.
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