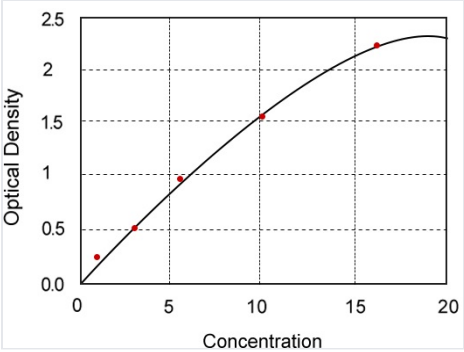
Interleukin 1alpha, Il-1alpha (IL-1alpha) ELISA Kit for Bovine

PRODUCT OVERVIEW

Product Name	Interleukin 1alpha, IL-1alpha, ELISA Kit
Full Product Name	Bovine Interleukin 1alpha, IL-1alpha ELISA Kit
Product Gene Name	IL-1alpha elisa kit
Species Reactivity	Bovine
Assay Type	Quantitative Sandwich
Samples	Serum, plasma, cell culture supernates, cell lysates, tissue homogenates
Detection Range	0.3ng/L - 90ng/L
Sensitivity	0.14ng/L
Preparation and Storage	Store at 2 to 8 degree C for 6 months.
Molecular Weight	30,607 Da
3D Structure	ModBase 3D Structure for P01583
Intra-Assay	CV<8%
Inter-Assay	CV<10%
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for IL-1alpha elisa kit	Intended Uses: This sandwich kit is for the accurate quantitative detection of Bovine Interleukin 1 Alpha (also known as IL-1A) in serum, plasma, cell culture supernates, cell lysates, tissue homogenates. Principles of the Assay: This kit is an Enzyme-Linked Immunosorbent Assay (ELISA). The plate has been pre-coated with Bovine IL-1A antibody. IL-1A present in the sample is added and binds to antibodies coated on the wells. And then biotinylated Bovine IL-1A Antibody is added and binds to IL-1A in the sample. Then Streptavidin-HRP is added and binds to the Biotinylated IL-1A antibody. After incubation unbound Streptavidin-HRP is washed away during a washing step. Substrate solution is then added and color develops in proportion to the amount of Bovine IL-1A. The reaction is terminated by addition of acidic stop solution and absorbance is measured at 450 nm.
Other Notes	Small volumes of IL-1alpha 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 IL-1alpha purchase	MBS166345 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Interleukin 1alpha, IL-1alpha, 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 IL-1alpha. The ELISA analytical biochemical technique of the MBS166345 kit is based on IL-1alpha antibody-IL-1alpha antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect IL-1alpha antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, IL-1alpha. 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 IL-1alpha elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL-1alpha. It may not necessarily be applicable to this product.

NCBI GI #	27894330
NCBI GeneID	3552
NCBI Accession #	NP_000566.3
UniProt Primary Accession #	P01583
UniProt Secondary Accession #	Q53QF9; Q7RU02
UniProt Related Accession #	P01583
GenBank Nucleotide #	NM_000575.4
NCBI Official Full Name	interleukin-1 alpha
NCBI Official Synonym Full Names	interleukin 1 alpha
NCBI Official Symbol	IL1A
NCBI Official Synonym Symbols	IL1; IL-1A; IL1F1; IL1-ALPHA
UniProt Protein Name	Interleukin-1 alpha
UniProt Synonym Protein Names	Hematopoietin-1
UniProt Gene Name	IL1A
UniProt Synonym Gene Names	IL1F1; IL-1 alpha
NCBI Protein Information	interleukin-1 alpha
NCBI Summary for IL-1alpha	The protein encoded by this gene is a member of the interleukin 1 cytokine family. This cytokine is a pleiotropic cytokine involved in various immune responses, inflammatory processes, and hematopoiesis. This cytokine is produced by monocytes and macrophages as a proprotein, which is proteolytically processed and released in response to cell injury, and thus induces apoptosis. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. It has been suggested that the polymorphism of these genes is associated with rheumatoid arthritis and Alzheimer's disease. [provided by RefSeq, Jul 2008]
UniProt Comments for IL-1alpha	Produced by activated macrophages, IL-1 stimulates thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast growth factor activity. IL-1 proteins are involved in the inflammatory response, being identified as endogenous pyrogens, and are reported to stimulate the release of prostaglandin and collagenase from synovial cells.
Research Articles on IL-1alpha	**1.** effect of IL-22 on Intestinal Epithelial Cells responses may not be in inducing CXCL8 by itself, but in enhancing TNF-alpha- and IL-1-induced CXCL8 secretion to augment the contribution of IECs to local inflammatory responses.

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