





Bovine Interleukin 1 β (IL- 1 β) ELISA kit

Product Code	CSB-E12986B
Abbreviation	IL1B
Protein Biological Process 1	Immunity
Target Name	interleukin 1, beta
Uniprot No.	P09428
Alias	IL-1, IL1-BETA, IL1F2, catabolin preinterleukin 1 beta pro-interleukin-1-beta
Product Type	ELISA Kit
Immunogen Species	Bos taurus (Bovine)
Protein Biological Process 3	Inflammatory response
Sample Types	serum, plasma, tissue homogenates
Detection Range	62.5 pg/mL-4000 pg/mL
Sensitivity	15.6 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	IL1B
Tag Info	quantitative
Protein Description	Sandwich
Description	This Bovine IL1B ELISA Kit was designed for the quantitative measurement of Bovine IL1B protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 62.5 pg/mL-4000 pg/mL and the sensitivity is 15.6 pg/mL .
Target Details	This protein is a member of the interleukin 1 cytokine family. This cytokine is produced by activated macrophages as a proprotein, which is proteolytically processed to its active form by caspase 1 (CASP1/ICE). This cytokine is an important mediator of the inflammatory response, and is involved in a variety of cellular activities, including cell proliferation, differentiation, and apoptosis. The induction of cyclooxygenase-2 (PTGS2/COX2) by this cytokine in the central nervous system (CNS) is found to contribute to inflammatory pain

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	hypersensitivity. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2.						
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	concentra	ations of bovine	IL-1β in va	rious matrices	e spiked with high and diluted with the Sample dynamic range of the assay.		
Recovery	The recovery of bovine IL-1 β 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) 95 90-102 EDTA plasma (n=4) 92 87-96						
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 Corrected

4000 2.876 2.862 2.869 2.751 2000 2.444 2.439 2.442 2.324 1000 1.903 1.856 1.880 1.762 500 1.412 1.403 1.408 1.290

250 1.164 1.185 1.175 1.057

 $125 \quad 0.809 \, 0.799 \, 0.804$ 0.686 62.5 0.471 0.479 0.475

? 0 0.117 0.118 0.118

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