

# Product datasheet

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## ARG83337 Human IL1 beta ELISA Kit

Package: 96 wells Store at: 4°C; -20°C

# Component

Cat. No.	Component Name	Package	Temp
ARG83337-01	Antibody Coated Microplate	8 X 12 strips	4°C
ARG83337-02	Standard (Lyophilized)	3 vials	4°C
ARG83337-03	Standard / Sample Diluent Buffer	20 ml	4°C
ARG83337-04	100X Antibody Conjugate concentrate	120 μΙ	≤ -20°C
ARG83337-05	1000X HRP- Streptavidin concentrate	15 μΙ	4°C (protect from light)
ARG83337-06	Antibody Diluent Buffer	35 ml	4°C
ARG83337-07	10X Wash Buffer	50 ml	4°C
ARG83337-08	TMB Substrate	12 ml	4°C (protect from light)
ARG83337-09	Stop Solution	12 ml	Room temperature
ARG83337-10	Plate sealer	4 adhesive strips	Room temperature

## Summary

Product Description	ARG83337 Human IL1 beta ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human IL1 beta in Serum, Plasma, Cell culture supernatants.		
Tested Reactivity	Reactivity Hu		
Tested Application	ELISA		
Specificity	No significant cross-reactivity or interference with Human IL-1 alpha; mouse IL-1 alpha, IL-1 beta; rat IL-1 alpha; porcine IL-1 alpha, IL-1 beta		
Target Name	IL1 beta		
Conjugation	HRP		
Conjugation Note Substrate: TMB and read at 450 nm			
Sensitivity	3.9 pg/ml		
Sample Type	Serum, Plasma, Cell culture supernatants		
Standard Range	7.8 - 500 pg/ml		
Sample Volume	50 μΙ		
Precision CV: less than10%			

#### **Application Instructions**

Assay Time 4 hours

#### **Properties**

Form 96 well

Storage instruction Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test

reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual

for detail temperatures of the components.

Note For laboratory research only, not for drug, diagnostic or other use.

#### Bioinformation

Gene Symbol IL1B

Gene Full Name interleukin 1, beta

Background IL1 beta 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 hypersensitivity. This gene and eight other interleukin 1 family genes

form a cytokine gene cluster on chromosome 2. [provided by RefSeq, Jul 2008]

Function IL1 beta is a potent proinflammatory cytokine. Initially discovered as the major endogenous pyrogen,

induces prostaglandin synthesis, neutrophil influx and activation, T-cell activation and cytokine production, B-cell activation and antibody production, and fibroblast proliferation and collagen production. Promotes Th17 differentiation of T-cells. Synergizes with IL12/interleukin-12 to induce IFNG

synthesis from T-helper 1 (Th1) cells (PubMed:10653850). [UniProt]

Highlight Related products:

IL1 beta antibodies; IL1 beta ELISA Kits; IL1 beta Duos / Panels; IL1 beta recombinant proteins;

Related news:

HMGB1 in inflammation Inflammatory Cytokines

Activation of IL-1 beta and IL-18 by Canonical Inflammasome Pathway

LKB1 deficiency in T cells promotes gut tumors

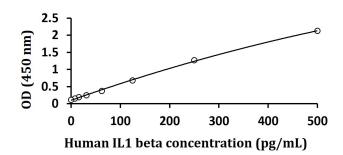
Exploring Antiviral Immune Response
RIP1 activation and pathogenesis of NASH

New ELISA data calculation tool: Simplify the ELISA analysis by GainData

Research Area Cell Biology and Cellular Response kit; Immune System kit; Metabolism kit

PTM Activation of the IL1B precursor involves a CASP1-catalyzed proteolytic cleavage. Processing and

secretion are temporarily associated.



### ARG83337 Human IL1 beta ELISA Kit standard curve image

ARG83337 Human IL1 beta ELISA Kit results of a typical standard run with optical density reading at 450 nm.