

## Active Recombinant Guinea pig IL1b protein, His-tagged

Cat. No. IL1b-3522G Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Active Recombinant Guinea pig IL1b protein(Q9WVG1)(115~266 aa), fused with N-terminal His tag, was expressed in E.coli.
<b>Species</b>	Guinea pig
<b>Source</b>	E.coli
<b>ProteinLength</b>	115-266 aa
<b>Form</b>	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
<b>Bio-activity</b>	<p>Interleukin 1 beta (IL-1<math>\beta</math>) also known as leukocytic pyrogen, leukocytic endogenous mediator, mononuclear cell factor, lymphocyte activating factor and other names, is a member of the interleukin 1 family of cytokines. 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. It has been reported that IL-1<math>\beta</math> can induced IL-8 production in A549 cells. To test the bioactivity of recombinant guinea pig IL-1<math>\beta</math>, A549 cells were seeded into 24-well plate at a density of <math>1 \times 10^5</math> cells/mL, and allowed to attach overnight before treated with certain concentrations of recombinant guinea pig IL-1<math>\beta</math> for 48h and IL-8 levels in the cell supernatant were determined by ELISA (SEA080Hu). IL-8 levels in the cell supernatant of A549 cells increased significantly after stimulated with IL-1<math>\beta</math>, the EC50 was 3.22 ug/ml.</p>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Molecular Mass</b>	23.9kDa
<b>Endotoxin</b>	<1.0EU per 1µg (determined by the LAL method).
<b>Purity</b>	> 97% as determined by SDS-PAGE.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
<b>Reconstitution</b>	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

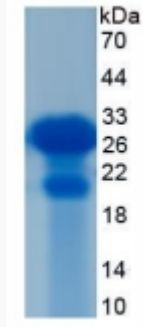
<b>Gene Name</b>	IL1b interleukin 1 beta [ <i>Cavia porcellus</i> ]
<b>Official Symbol</b>	IL1b
<b>Synonyms</b>	IL1B; interleukin 1 beta; interleukin-1 beta; IL-1 beta;
<b>Gene ID</b>	100135556
<b>mRNA Refseq</b>	NM_001172968
<b>Protein Refseq</b>	NP_001166439

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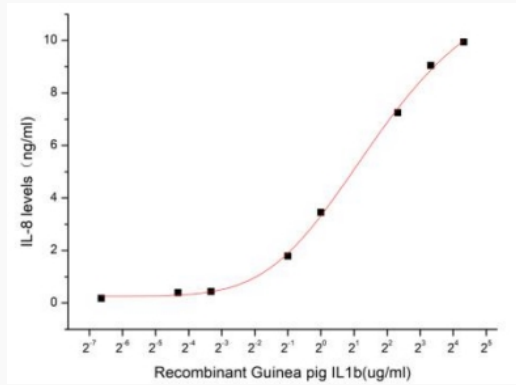
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**SDS-PAGE**



**Activity**



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