

# Active Recombinant Guinea pig IL1b protein, His-tagged

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <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>     | Interleukin 1 beta (IL-1 $\beta$ ) 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 $\beta$ can induced IL-8 production in A549 cells. To test the bioactivity of recombinant guinea pig IL-1 $\beta$ , A549 cells were seeded into 24-well plate at a density of 1x10 <sup>5</sup> cells/mL, and allowed to attach overnight before treated with certain concentrations of recombinant guinea pig IL-1 $\beta$ 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 $\beta$ , the EC50 was 3.22 ug/ml. |

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|                       |                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------|
| <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

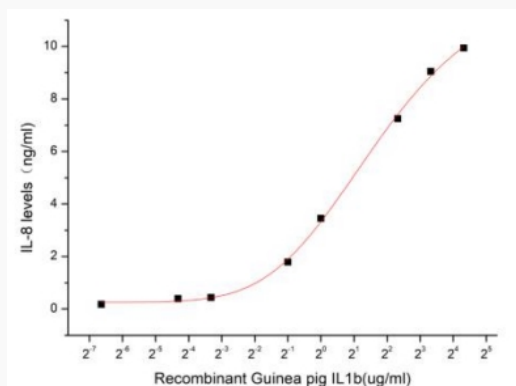
|                        |                                                          |
|------------------------|----------------------------------------------------------|
| <b>Gene Name</b>       | IL1b interleukin 1 beta [ <i>Cavia porcellus</i> ]       |
| <b>Official Symbol</b> | IL1b                                                     |
| <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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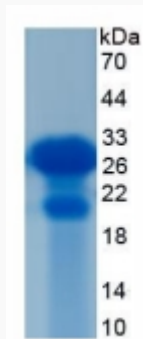
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## Activity



## SDS-PAGE



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