

# Active Recombinant Human IL1B Protein

**Cat. No.** IL1B-364H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human IL1B Protein is produced by Human Cells expression system.<br>Structure: Glycosylated monomer.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | Human Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | IL-1 includes two pleiotropic cytokines, IL-1 $\alpha$ and IL-1 $\beta$ . Both IL-1 $\alpha$ and IL-1 $\beta$ bind to the same receptor and have similar, if not identical, biological properties. IL-1 $\beta$ is a proinflammatory cytokine produced in a variety of cells, including monocytes, tissue macrophages, keratinocytes, and other epithelial cells. These cytokines have a broad range of activities including the stimulation of thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast growth factor activity. |
| <b>Form</b>             | Lyophilized from a 0.2 $\mu$ m filtered solution in PBS without carrier protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Bio-activity</b>     | The activity was measured by its ability to stimulate the proliferation of the proliferation of mouse D10S cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>   | 18-25 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Endotoxin</b>        | <0.5EU/ug                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>           | >95% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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**Storage** Use a manual defrost freezer and avoid repeated freeze-thaw cycles. In general: 12 months from date of receipt, -20 to -80 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -80 centigrade under sterile conditions after reconstitution.

**Reconstitution** Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

## GENE INFORMATION

**Gene Name** IL1B interleukin 1, beta [ Homo sapiens ]

**Official Symbol** IL1B

**Synonyms** IL1B; IL 1B; IL1 BETA; IL1F2; IL-1 beta; catabolin; IL-1; IL1-BETA;

**Gene ID** 3553

**mRNA Refseq** NM\_000576

**Protein Refseq** NP\_000567

**MIM** 147720

**UniProt ID** P01584

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