

# Active Recombinant Human IL1B protein

**Cat. No.** IL1B-027E    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Active Recombinant Human IL1B protein(NP_000567.1) (Ala 117-Ser 269) was expressed in E.coli.                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | 117-269 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Form</b>             | Lyophilized from sterile PBS, pH 7.4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Bio-activity</b>     | 1. Measured by its binding ability in a functional ELISA. Immobilized recombinant human IL1B at 2 µg/mL (100µl/well) can bind recombinant human IL1R2 with a linear range of 6.25-400 ng/ml. 2. Measured in a cell proliferation assay using D10.G4.1 mouse helper T cells. The ED50 for this effect is typically 2-8 pg/mL. 3. Measured by its binding ability in a functional ELISA. Immobilized human IL1B at 10 µg/mL (100 µl/well) can bind human IL1R1, The EC50 of human IL1R1 is 0.48 µg/mL. |
| <b>Molecular Mass</b>   | The recombinant human IL1β consisting of 154 amino acids migrates with an apparent molecular mass of 17 kDa as estimated in SDS-PAGE under reducing conditions.                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>           | > 95 % as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Storage</b>          | Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to                                                                                                                                                                                                                                                                                                                                                                                                                     |

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aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.

**Reconstitution**

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

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

**Official Symbol** IL1B

**Synonyms** IL1B; interleukin 1, beta; interleukin-1 beta; IL 1B; IL1 BETA; IL1F2; IL-1 beta; catabolin; preinterleukin 1 beta; pro-interleukin-1-beta; IL-1; IL1-BETA;

**Gene ID** 3553

**mRNA Refseq** NM\_000576

**Protein Refseq** NP\_000567

**MIM** 147720

**UniProt ID** P01584

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## SDS-PAGE



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