

## Active Recombinant Rat IL1b protein, His-tagged

**Cat. No.** IL1b-1019R    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Rat IL1b protein(Val117-Ser268), fused with C-terminal His tag, was expressed in HEK293.                                                                                                                                             |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                              |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>    | 117-268 aa                                                                                                                                                                                                                                       |
| <b>Form</b>             | Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.                                                                                                                                                                                     |
| <b>Bio-activity</b>     | Recombinant Rat IL-1 beta Protein stimulates cell proliferation of the D10.G4.1 mouse helper T cell line. The ED50 for this effect is 0.68-2.72 ng/mL, corresponding to a specific activity of $3.68 \times 10^5$ – $1.47 \times 10^6$ units/mg. |
| <b>Molecular Mass</b>   | 18.16 kDa                                                                                                                                                                                                                                        |
| <b>Endotoxin</b>        | < 1 EU/µg of the protein by LAL method.                                                                                                                                                                                                          |
| <b>Purity</b>           | ≥ 85 % as determined by SDS-PAGE.                                                                                                                                                                                                                |
| <b>Storage</b>          | Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.                                    |

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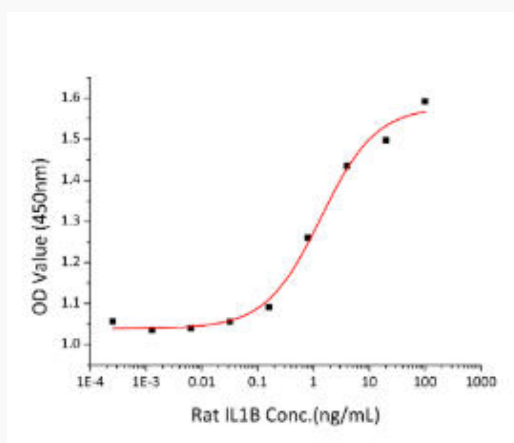
 45-1 Ramsey Road, Shirley, NY 11967, USA

**Reconstitution**

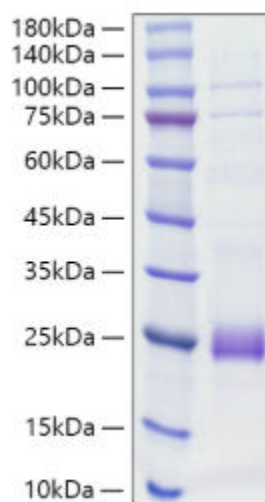
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

**GENE INFORMATION**

|                 |                                                               |
|-----------------|---------------------------------------------------------------|
| Gene Name       | Il1b interleukin 1 beta [ <a href="#">Rattus norvegicus</a> ] |
| Official Symbol | <a href="#">Il1b</a>                                          |
| Synonyms        | IL1B; interleukin 1 beta; interleukin-1 beta; IL-1 beta;      |
| Gene ID         | <a href="#">24494</a>                                         |
| mRNA Refseq     | <a href="#">NM_031512</a>                                     |
| Protein Refseq  | <a href="#">NP_113700</a>                                     |

**Activity**


**SDS-PAGE**



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