

## General Information

<b>Source</b>	<i>Escherichia coli</i>
<b>Synonyms</b>	Interleukin 1 beta; IL1F2; IL-1B; IL1-BETA
<b>Accession</b>	P10749
<b>Molecular Mass</b>	17.5 kDa
<b>Description</b>	Recombinant Mouse IL-1 beta is an 17.5 kDa protein consisting of 153 amino acid residues.
<b>Shipping</b>	The product is shipped at 4 °C . Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	Aliquot the reconstituted solution to minimize freeze-thaw cycles. Lyophilized protein should be stored at -20°C to -80°C, stable for one year after receipt. Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.
<b>Reconstitution</b>	Centrifuge tubes before opening. Dissolve the lyophilized protein in distilled water. Do not mix by vortex. It is recommended to dissolve the product at a concentration of twice the specified specification.
<b>Background</b>	Interleukin-1 beta (IL-1 beta) is a proinflammatory cytokine expressed by monocytes, macrophages, and dendritic cells. IL-1 beta is synthesized in response to inflammatory stimuli as a 31 kDa inactive pro-form that accumulates in the cytosol. Cleavage of pro-IL-1 beta into the active 17 kDa protein requires the activation of inflammasomes, which are multi-protein complexes that respond to pathogens, stress conditions, and other danger signals. IL-1 beta play an important role in innate host defense by triggering the production of other proinflammatory cytokines in target cells and initiating acute-phase responses to infection and injury.

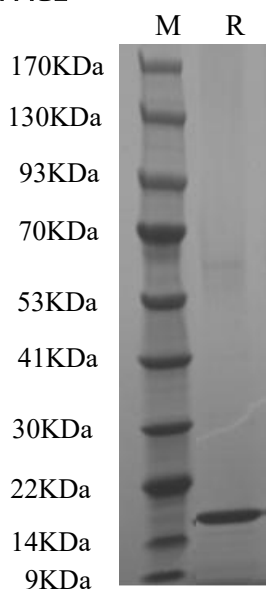
**Product For Research Use Only**

## Specifications

<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4, 5% trehalose.
<b>Purity</b>	≥95% as determined by SDS-PAGE
<b>Endotoxin</b>	< 1 EU/ug
<b>Bioactivity</b>	Immobilized Anti-Mouse IL-1B Antibody at 0.2 ug/mL (50 uL/well) can bind Mouse IL-1B with a linear range of 48.83 - 25,000 pg/mL.

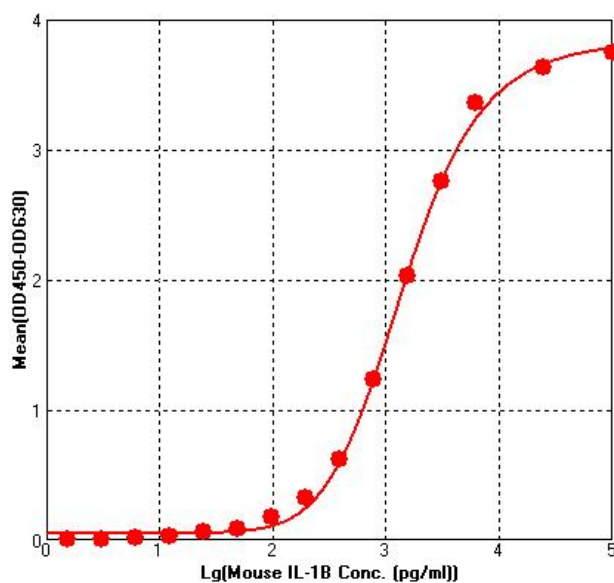
## Data

**SDS-PAGE**



Greater than 95% as determined by reducing SDS-PAGE.

**Bioactivity-ELISA**



Immobilized Anti-Mouse IL-1B Antibody at 0.2 ug/mL (50 uL/well) can bind Mouse IL-1B with a linear range of 48.83 - 25,000 pg/mL. (EC50 = 1.17 ng/mL)

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