

## Datasheet: PRP23

**BATCH NUMBER 166919**

<b>Description:</b>	RECOMBINANT RAT INTERLEUKIN-1 BETA
<b>Name:</b>	IL-1 BETA
<b>Format:</b>	Rec. Protein
<b>Product Type:</b>	Recombinant Protein
<b>Quantity:</b>	10 µg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			0.2 - 0.4ng/well
Western Blotting	▪			1.5 - 3.0ng/lane
Functional Assays	▪			0.1 - 10ng/ml

Where this protein has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the protein for use in their own system using appropriate positive/negative controls.

<b>Target Species</b>	Rat
<b>Product Form</b>	Purified recombinant protein - lyophilized.
<b>Reconstitution</b>	Reconstitute with 0.1 ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.
<b>Preparation</b>	Recombinant protein expressed in <i>Escherichia coli</i> .
<b>Source</b>	E.coli
<b>Buffer Solution</b>	10mM Sodium Acetate pH6.5
<b>Preservative Stabilisers</b>	None present
<b>Carrier Free</b>	Yes

<b>Endotoxin Level</b>	< 0.1 ng/ug
<b>Approx. Protein Concentrations</b>	Total protein concentration 0.1 mg/ml after reconstitution
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q63264</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">24494</a>    IL1b    <a href="#">Related reagents</a></p>
<b>Product Information</b>	<b>Recombinant rat interleukin-1 beta</b> is an <i>E. coli</i> -derived recombinant protein corresponding to full-length mature rat interleukin 1 beta (IL-1b), an immunomodulatory cytokine that mediates a wide range of immune responses.
<b>Protein Molecular Weight</b>	17.3kD (153 Amino acid sequence)
<b>Activity</b>	PRP23 has a specific activity of > 1 x 10 <sup>7</sup> units/mg as determined by dose-dependent stimulation of proliferation of murine D10S cells.
<b>Purity</b>	>98% by SDS PAGE and HPLC analysis
<b>ELISA</b>	This product may be used as the standard in ELISA applications with either <a href="#">AAR15G</a> or <a href="#">AAR15B</a> .
<b>Western Blotting</b>	This product may be used as the positive control in western blotting applications with either <a href="#">AAR15G</a> or <a href="#">AAR15B</a> .
<b>Storage</b>	<p>Prior to reconstitution store at -20°C. Following reconstitution store at -20°C.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	Guaranteed for 3 months from the date of reconstitution or until the date of expiry, whichever comes first. Please see label for expiry date.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10527 available at: <a href="https://www.bio-rad-antibodies.com/SDS/PRP23">https://www.bio-rad-antibodies.com/SDS/PRP23</a> 10527
<b>Regulatory</b>	For research purposes only

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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