

## Datasheet: PHP080

**BATCH NUMBER 160913**

|                      |                                   |
|----------------------|-----------------------------------|
| <b>Description:</b>  | RECOMBINANT HUMAN INTERLEUKIN-1RA |
| <b>Name:</b>         | IL-1RA                            |
| <b>Other names:</b>  | INTERLEUKIN-1 RECEPTOR ANTAGONIST |
| <b>Format:</b>       | Rec. Protein                      |
| <b>Product Type:</b> | Recombinant Protein               |
| <b>Quantity:</b>     | 20 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 | ▪   |    |                | 20 - 40ng/ml       |

Where this product 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 product for use in their own system using appropriate negative/positive controls.

|                                 |   |
|---------------------------------|---|
| <b>Target Species</b>           | Human   |
| <b>Product Form</b>             | Purified recombinant protein - lyophilized  |
| <b>Reconstitution</b>           | Reconstitute with 0.2 ml distilled water<br>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. For extended storage, the addition of 0.1% bovine serum albumin (BSA) is recommended. |
| <b>Preparation</b>              | Recombinant protein produced in <i>E. coli</i>  |
| <b>Buffer Solution</b>          | TRIS buffered saline  |
| <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><br/> <a href="#">P18510</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">3557</a>    IL1RN    <a href="#">Related reagents</a></p>   |
| <b>Synonyms</b>                       | IL1F3, IL1RA   |
| <b>Product Information</b>            | <p>Interleukin-1 receptor antagonist (IL-1RA) is a naturally occurring protein which inhibits the activity of IL-1 alpha and IL-1 beta by competitively blocking binding to cell surface receptors for IL-1.</p> <p>In an assay of dose dependent inhibition of IL-1 stimulation of D10S cells, the ED50 was expected to be 20-40 ng/ml.</p>                   |
| <b>Protein Molecular Weight</b>       | 17 kDa (153 amino acids)   |
| <b>Purity</b>                         | >98% by SDS PAGE   |
| <b>ELISA</b>                          | Recombinant human Interleukin-1RA may be used as the standard for ELISA applications with either a <a href="#">purified human IL-1RA antibody</a> or a <a href="#">biotinylated human IL-1RA antibody</a> .  |
| <b>Western Blotting</b>               | Recombinant huma Interleukin-1RA may be used as a positive control for Western Blotting applications with either a <a href="#">purified human IL-1RA antibody</a> or a <a href="#">biotinylated human IL-1RA antibody</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/PHP08010527">https://www.bio-rad-antibodies.com/SDS/PHP08010527</a>   |
| <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)  
'M362345:200501'

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