

## Datasheet: PHP047A

**BATCH NUMBER 160346**

|                      |                                  |
|----------------------|----------------------------------|
| <b>Description:</b>  | RECOMBINANT HUMAN INTERLEUKIN-10 |
| <b>Name:</b>         | IL-10                            |
| <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 | ▪   |    |                | 0.2 - 20ng/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 product for use in their own system using appropriate positive/negative controls.

|                                 |   |
|---------------------------------|---|
| <b>Target Species</b>           | Human   |
| <b>Product Form</b>             | Purified recombinant IL-10 - lyophilized  |
| <b>Reconstitution</b>           | <p>Reconstitute with 0.1ml of 5mM sodium phosphate pH 7.2. 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.</p> <p>After the initial reconstitution step, the product should be diluted to a working concentration using an aqueous buffer containing 0.1% BSA (or any albumin), or diluted in culture media containing serum such as FCS.</p> |
| <b>Preparation</b>              | Recombinant protein expressed in <i>Escherichia coli</i>  |
| <b>Buffer Solution</b>          | Sodium Phosphate  |
| <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 0.1mg/ml after reconstitution.  |
| <b>External Database Links</b>        | <p><b>UniProt:</b><br/> <a href="#">P22301</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">3586</a>    IL10    <a href="#">Related reagents</a></p>   |
| <b>Product Information</b>            | <p><b>Recombinant Human interleukin-10</b> is a 161 amino acid recombinant IL-10 cytokine, with a range of reported properties including inhibition of macrophage mediated cytokine synthesis, suppression of the delayed type hypersensitivity response, and stimulation of the Th2 cells response.</p> <p>Recombinant human IL-10 has an ED<sub>50</sub> of &lt;2.0ng/ml as determined by co-stimulation of MC/9 cells with human IL-4.</p> |
| <b>Protein Molecular Weight</b>       | 18.6 kD   |
| <b>Activity</b>                       | 5 x 10 <sup>5</sup> units/mg  |
| <b>Purity</b>                         | >98% by SDS PAGE and HPLC analysis  |
| <b>Western Blotting</b>               | PHP047A may be used under reducing or non-reducing western blotting conditions with <a href="#">AHP795</a> .  |
| <b>Storage</b>                        | <p>Prior to reconstitution store at -20°C. Following reconstitution store at -20°C.</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/PHP047A">https://www.bio-rad-antibodies.com/SDS/PHP047A</a><br>10527   |
| <b>Regulatory</b>                     | For research purposes only  |

## Related Products

## Recommended Useful Reagents

### RABBIT ANTI HUMAN INTERLEUKIN-10 (AHP795)

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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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