**Datasheet: PHP045**

<table>
<thead>
<tr>
<th>Description</th>
<th>RECOMBINANT HUMAN INTERLEUKIN-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>IL-6</td>
</tr>
<tr>
<td>Format</td>
<td>Rec. Protein</td>
</tr>
<tr>
<td>Product Type</td>
<td>Recombinant Protein</td>
</tr>
<tr>
<td>Quantity</td>
<td>20 µg</td>
</tr>
</tbody>
</table>

**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).

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELISA</td>
<td></td>
<td></td>
<td></td>
<td>0.2 - 0.4ng/well</td>
</tr>
<tr>
<td>Western Blotting</td>
<td></td>
<td></td>
<td></td>
<td>1.5 - 3.0ng/lane</td>
</tr>
<tr>
<td>Functional Assays</td>
<td></td>
<td></td>
<td></td>
<td>0.1 - 10ng/ml</td>
</tr>
</tbody>
</table>

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.

**Target Species**

Human

**Product Form**

Purified recombinant protein - lyophilised

**Reconstitution**

Reconstitute with 0.2ml 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. DO NOT VORTEX. For long term storage the addition of 0.09% sodium azide is recommended.

N.B. For functional studies do not add sodium azide

**Preparation**

Recombinant protein expressed in *E. coli.*

**Preservative Stabilisers**

None present.

**Endotoxin Level**

< 0.1 ng/ug

**Approx. Protein Concentrations**

0.1 mg/ml after reconstitution

**External Database Links**

UniProt: P05231

Related reagents

Entrez Gene:
### Product Information

**Recombinant Human Interleukin-6 protein** produced in *E. coli* constitutes full length non-glycosylated human IL-6 and retain full biological activity. Interleukin-6 is a potent lymphoid cell growth factor, acting on B cells, T cells and hybridoma cells. This preparation has an ED50 of 0.1ng/ml when assayed by proliferation of murine 7TD1 cells.

<table>
<thead>
<tr>
<th>Protein Molecular Weight</th>
<th>20.9 kDa (184 amino acids)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activity</td>
<td>&gt;1 x 10^7 units/mg</td>
</tr>
<tr>
<td>Purity</td>
<td>&gt;98% by SDS PAGE analysis and HPLC analysis</td>
</tr>
</tbody>
</table>

**ELISA**

Recombinant Human IL-6 (PHP045) may be used as a standard for ELISA applications with biotinylated Rabbit anti Human Interleukin-6 (AHP1040B) for detection.

**Western Blotting**

Recombinant Human IL-6 may be used as the positive control for western blotting applications with Rabbit anti Human Interleukin-6 (AHP1040) for detection.

**References**


**Storage**

Prior to reconstitution store at -20°C. Following reconstitution store at -20°C.

This product should be stored undiluted.

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.

**Guarantee**

Guaranteed for 3 months from the date of reconstitution or until the date of expiry, whichever comes first. Please see label for expiry date.

**Health And Safety Information**

Material Safety Datasheet documentation #10345 available at:


**Regulatory**

For research purposes only

### Related Products

**Recommended Useful Reagents**

- **RABBIT ANTI HUMAN INTERLEUKIN-6 (AHP1040)**
- **RABBIT ANTI HUMAN INTERLEUKIN-6:Biotin (AHP1040B)**