Datasheet: PHP042A

**Description:** RECOMBINANT HUMAN INTERLEUKIN-2

**Name:** IL-2

**Format:** Rec. Protein

**Product Type:** Recombinant Protein

**Quantity:** 10 µg

**Applications**

- **Suggested Dilution**
  - ELISA: 0.2 - 0.4 ng/well
  - Western Blotting: 1.5 - 3.0 ng/lane
  - Functional Assays: 0.1 - 2.0 ng/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.

**Target Species**

- Human

**Species Cross Reactivity**

Reacts with: Cynomolgus monkey, Rhesus Monkey, Dolphin

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

**Product Form**

- Purified protein produced in *E. coli* - lyophilized

**Reconstitution**

- Reconstitute with 0.1 ml 0.1M acetic acid
- 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.

**Source**

- E.coli

**Buffer Solution**

- 10mM Sodium citrate.

**Preservative**

- None present
**Stabilisers**

<table>
<thead>
<tr>
<th>Carrier Free</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endotoxin Level</td>
<td>&lt; 0.1 ng/ug</td>
</tr>
<tr>
<td>Approx. Protein Concentrations</td>
<td>Total protein concentration 0.1mg/ml after reconstitution.</td>
</tr>
</tbody>
</table>

**External Database Links**

<table>
<thead>
<tr>
<th>UniProt</th>
<th>Related reagents</th>
</tr>
</thead>
<tbody>
<tr>
<td>P60568</td>
<td></td>
</tr>
</tbody>
</table>

**Entrez Gene**

| 3558 IL2 | Related reagents |

**Product Information**

Recombinant human interleukin 2 is an *Escherichia coli* derived recombinant protein corresponding to full-length mature human interleukin-2, a secreted peptide required for T-cell proliferation. This preparation has an ED50 of 0.1ng/ml as determined by the dose-dependent stimulation of the proliferation of murine CTLL-2 cells.

**Protein Molecular Weight**

15.5kDa (134 Amino acid sequence)

**Activity**

$>1 \times 10^7$ units/mg as determined by dose-dependent stimulation of CTLL-2 cells.

**Purity**

$>98\%$ by SDS PAGE and HPLC analysis

**ELISA**

This product may be used as a standard in ELISA applications with either AHP1032 or AHP1032B.

**Western Blotting**

This product may be used as a positive control in western blotting applications with either AHP1032 or AHP1032B.

**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 #10527 available at: https://www.bio-rad-antibodies.com/SDS/PHP042A10527

### Regulatory

For research purposes only

---

**Related Products**

**Recommended Useful Reagents**

- RABBIT ANTI HUMAN INTERLEUKIN-2 (AHP1032)
- RABBIT ANTI HUMAN INTERLEUKIN-2:Biotin (AHP1032B)

---

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)