Datasheet: PHP042

**Description:** RECOMBINANT HUMAN INTERLEUKIN-2

**Name:** IL-2

**Format:** Rec. Protein

**Product Type:** Recombinant Protein

**Quantity:** 50 µg

**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.

<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>No</td>
<td>No</td>
<td>Yes</td>
<td>0.2 - 0.4ng/well</td>
</tr>
<tr>
<td>Western Blotting</td>
<td>Yes</td>
<td>No</td>
<td></td>
<td>1.5 - 3.0ng/lane</td>
</tr>
<tr>
<td>Functional Assays</td>
<td>Yes</td>
<td>No</td>
<td></td>
<td>0.1ng/ml - 2.0ng/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

**Species Cross Reactivity**

Reacts with: Cynomolgus monkey, Rhesus Monkey, Dolphin

**N.B.** Antibody reactivity and working conditions may vary between species.

**Product Form**

Purified protein produced in *E. coli* - lyophilised

**Reconstitution**

Reconstitute with 0.5 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.

**Buffer Solution**

10mM Sodium citrate

**Preservative Stabilisers**

None present

**Endotoxin Level**

<0.1 ng/ug

**Approx. Protein Concentrations**

Total protein concentration 0.1 mg/ml after reconstitution

**External Database Links**

UniProt: P60568 Related reagents
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

15.4kDa (134 Amino acid sequence)

Activity

$1 \times 10^7$ units/mg

Purity

>98% by SDS PAGE and HPLC analysis

ELISA

Recombinant Rat interleukin-2 may be used as a standard for ELISA applications with Rat anti Human IL-2 antibody, clone MQ1-17H12 (MCA1553).

Western Blotting

Recombinant human IL-2 may be used as a positive control for Western Blotting applications using Rabbit anti Human IL-2 antibodies (AAR38) for detection

References


Storage

Prior to reconstitution store at +4°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.

Shelf Life

3 months from date of reconstitution.

Health And Safety Information

Material Safety Datasheet documentation #10527 available at: