

## Datasheet: PHP046

<b>Description:</b>	RECOMBINANT HUMAN INTERLEUKIN-7
<b>Name:</b>	IL-7
<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 - 0.4 ng/well
Western Blotting	▪			1.5 - 3.0 ng/lane
Functional Assays	▪			0.1ng/ml - 10ng/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 protein for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified recombinant protein expressed in <i>E. coli</i> - lyophilized
<b>Reconstitution</b>	<p>Reconstitute with 0.1 ml distilled water. For extended storage the addition of 0.1% BSA is recommended.</p> <p>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>
<b>Buffer Solution</b>	10mM Acetic Acid
<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

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**External Database****Links****UniProt:**

[P13232](#)    [Related reagents](#)

**Entrez Gene:**

[3574](#)    IL7    [Related reagents](#)

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**Product Information**

**Recombinant human IL-7** is a 17.4 kDa protein comprised of 153 amino acids corresponding to the full-length mature sequence.

IL-7 is a potent lymphoid cell growth factor acting on Pre-B, Pro-B and early T cells. In a dose dependent cell proliferation assay using 2E8 cells this product shows a specific activity of > 2 x 10<sup>6</sup> units/mg.

Recombinant human IL-7 is recognized by Rat anti Human IL-7 antibody clone [BVD10-40F6](#) in ELISA.

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**Protein Molecular Weight**

17.5kDa (153 amino acids)

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**Purity**

>98 % by SDS PAGE and HPLC

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**ELISA**

Recombinant human IL-7 may be used as a standard for ELISA applications with either [anti-Human IL-7 \(purified\)](#) or [anti-Human IL-7 \(biotin conjugate\)](#).

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**Western Blotting**

Recombinant human IL-7 may be used as the positive control for western blotting applications with either [anti-Human IL-7 \(purified\)](#) or [anti-Human IL-7 \(biotin conjugate\)](#).

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**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.

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**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.

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**Health And Safety Information**

Material Safety Datasheet documentation #10527 available at: 10527: <https://www.bio-rad-antibodies.com/uploads/MSDS/10527.pdf>

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**Regulatory**

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://www.bio-rad-antibodies.com/datasheets)

**Printed on 21 Mar 2022**

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