

Datasheet: PHP046

**BATCH NUMBER 166193**

|                      |                                 |
|----------------------|---------------------------------|
| <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>           | Reconstitute with 0.1 ml distilled water. For extended storage the addition of 0.1% BSA is recommended.<br>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. |
| <b>Source</b>                   | <i>E.coli</i>  |
| <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  |
| <b>External Database Links</b>        | <p><b>UniProt:</b><br/> <a href="#">P13232</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">3574</a>    IL7    <a href="#">Related reagents</a></p>  |
| <b>Product Information</b>            | <p><b>Recombinant human IL-7</b> is a 17.4 kDa protein comprised of 153 amino acids corresponding to the full-length mature sequence.</p> <p>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 &gt; 2 x 10<sup>6</sup> units/mg.</p> <p>Recombinant human IL-7 is recognized by Rat anti Human IL-7 antibody clone <a href="#">BVD10-40F6</a> in ELISA.</p> |
| <b>Protein Molecular Weight</b>       | 17.5kDa (153 amino acids)   |
| <b>Purity</b>                         | >98 % by SDS PAGE and HPLC  |
| <b>ELISA</b>                          | Recombinant human IL-7 may be used as a standard for ELISA applications with either <a href="#">anti-Human IL-7 (purified)</a> or <a href="#">anti-Human IL-7 (biotin conjugate)</a> .  |
| <b>Western Blotting</b>               | Recombinant human IL-7 may be used as the positive control for western blotting applications with either <a href="#">anti-Human IL-7 (purified)</a> or <a href="#">anti-Human IL-7 (biotin conjugate)</a> .   |
| <b>Storage</b>                        | <p>Prior to reconstitution store at -20°C. Following reconstitution store at -20°C.</p> <p>This product should be stored undiluted.</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/PHP046">https://www.bio-rad-antibodies.com/SDS/PHP046</a><br>10527   |
| <b>Regulatory</b>                     | 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://bio-rad-antibodies.com/datasheets)  
'M420079:230706'

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