

Datasheet: PBP036

**BATCH NUMBER 164981**

<b>Description:</b>	RECOMBINANT BOVINE LEUKEMIA INHIBITORY FACTOR
<b>Name:</b>	LEUKEMIA INHIBITORY FACTOR
<b>Other names:</b>	LIF
<b>Format:</b>	Rec. Protein
<b>Product Type:</b>	Recombinant Protein
<b>Quantity:</b>	5 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	▪			
Western Blotting	▪			

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.

<b>Target Species</b>	Bovine
<b>Product Form</b>	Purified recombinant protein - lyophilized
<b>Reconstitution</b>	Reconstitute with 20 µl sterile PBS containing 0.1% carrier protein 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>Preparation</b>	Recombinant protein expressed in <i>Pichia pastoris</i> and purified by ion-exchange chromatography
<b>Source</b>	<i>Pichia pastoris</i>
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	10% Trehalose

**External Database  
Links**

**UniProt:**

[Q27956](#)   [Related reagents](#)

**Entrez Gene:**

[280840](#)   LIF   [Related reagents](#)

---

**Product Information**   **Recombinant Bovine leukemia inhibitory factor (LIF)** is a recombinant protein corresponding to aa 23-202 of native bovine LIF.

Bovine LIF is a chemokine belonging to the IL-6 cytokine family. LIF inhibits differentiation in normal stem cells, but in leukemic myeloid cells, induces differentiation thereby preventing further growth.

---

**Protein Molecular Weight**   19.8 kDa

---

**Purity**   >95% by SDS PAGE analysis

---

**ELISA**   This reagent may be used as a standard in a sandwich ELISA assay in conjunction with [AHP2381](#) as a coating antibody and [AHP2381B](#) as a detection antibody.

---

**Storage**   Prior to reconstitution store at -20°C.  
After reconstitution store at -20°C.  
Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein.

---

**Guarantee**   12 months from date of despatch

---

**Health And Safety Information**   Material Safety Datasheet documentation #10591 available at: <https://www.bio-rad-antibodies.com/SDS/PBP036>  
10591

---

**Regulatory**   For research purposes only

---

**North & South America**   Tel: +1 800 265 7376  
Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**   Tel: +44 (0)1865 852 700  
Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**   Tel: +49 (0) 89 8090 95 21  
Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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)  
'M415623:230113'

**Printed on 19 Jan 2024**