

## Datasheet: PMP44

**BATCH NUMBER 161314**

<b>Description:</b>	RECOMBINANT MOUSE INSULIN-LIKE GROWTH FACTOR I
<b>Name:</b>	IGF-I
<b>Other names:</b>	INSULIN-LIKE GROWTH FACTOR I
<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 - 0.4ng/well
Western Blotting	▪			1.5 - 3.0ng/lane
Functional Assays	▪			0.1 - 1.0ng/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 antibody for use in their own system using appropriate positive/negative controls.

<b>Target Species</b>	Mouse
<b>Product Form</b>	Purified recombinant protein - lyophilized
<b>Reconstitution</b>	<p>Reconstitute with 10 ul distilled water</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. For long term storage the addition of 0.09% sodium azide is recommended.</p> <p>N.B. For functional studies do not add sodium azide</p>
<b>Preservative Stabilisers</b>	None present
<b>Carrier Free</b>	Yes
<b>Endotoxin Level</b>	< 0.1 ng/ug

**Approx. Protein Concentrations** 1.0 mg/ml after reconstitution

**External Database Links**

**UniProt:**  
[P05017](#) [Related reagents](#)

**Entrez Gene:**  
[16000](#) Igf1 [Related reagents](#)

**Synonyms** Igf-1

**Product Information** **Recombinant Mouse anti insulin-like growth factor I** is an *E. coli*-derived recombinant protein corresponding to full-length mature murine insulin-like growth factor 1 (IGF-1), a 70 amino acid peptide that is structurally and functionally related to insulin but with higher growth-promoting activities.

Recombinant mouse IGF-1 has an ED<sub>50</sub> of <2.0ng/ml as determined by a cell proliferation assay using FDC-P1 cells.

**Protein Molecular Weight** 7.6kD (70 amino acid sequence)

**Purity** >97% by SDS PAGE and HPLC

**ELISA** PMP44 may be used as a standard in either an indirect ELISA with [AAM30](#).

**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 #10268 available at:  
<https://www.bio-rad-antibodies.com/SDS/PMP44>  
10268

**Regulatory** For research purposes only

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