

Datasheet: PHP198

BATCH NUMBER 159216

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|----------------------|--------------------------|
| Description: | RECOMBINANT HUMAN LEPTIN |
| Name: | LEPTIN |
| Format: | Rec. Protein |
| Product Type: | Recombinant Protein |
| Quantity: | 1 mg |

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.

| | Yes | No | Not Determined | Suggested Dilution |
|-------------------|-----|----|----------------|--------------------|
| ELISA | ▪ | | | 0.2 - 0.4ng/well |
| Western Blotting | ▪ | | | 1.5 - 3.0ng/lane |
| Functional Assays | ▪ | | | |

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.

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| Target Species | Human |
| Product Form | Purified recombinant protein - lyophilized |
| Reconstitution | Reconstitute with 1.0 ml distilled water. 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 extended storage, the addition of 0.1% bovine serum albumin (BSA) is recommended. |
| Preparation | Purified recombinant leptin expressed in <i>E.coli</i> . Sterile filtered through a 0.2 micron filter |
| Buffer Solution | Lyophilized with 0.1% TFA |
| Preservative Stabilisers | None present |
| Carrier Free | Yes |

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| Endotoxin Level | < 1.0 EU/ug |
| Approx. Protein Concentrations | 1.0 mg/ml after reconstitution |
| External Database Links | <p>UniProt: P41159 Related reagents</p> <p>Entrez Gene: 3952 LEP Related reagents</p> |
| Synonyms | OB, OBS |
| Product Information | <p>Recombinant human leptin is a leptin preparation made in <i>E. coli</i>. Leptin is a major adipose-derived hormone and member of the leptin family, which plays a key role in appetite control and the regulation of energy expenditure.</p> <p>Secreted leptin associates with proteins within the bloodstream and is transported to the brain, where it inhibits or up-regulates the activity of neuropeptides such as neuropeptide Y (NPY) and alpha-melanocyte-stimulating hormone respectively. Leptin is a recognised marker of obesity, with a correlation between circulating levels of leptin and body fat mass, and defects in leptin production result in severe obesity. Regulators of leptin expression include insulin, cortisol, cAMP and thiazolidinediones.</p> |
| Protein Molecular Weight | 16.0 kDa (147 amino acid residues) |
| Activity | PHP198 is biologically active in the <i>ob/ob</i> mouse obesity model. The <i>ob/ob</i> mice were treated via intraperitoneal injection once daily at a dose of 5 µg Leptin/gm of body weight for 7 days. Significant effects on body weight, food consumption, and plasma glucose levels were observed to saline-treated controls. |
| Purity | >98% by SDS PAGE and HPLC |
| ELISA | Recombinant human leptin may be use as a standard for ELISA applications with purified human leptin antibody (AHP1616). |
| Western Blotting | Recombinant human leptin may be used as the positive control for Western Blotting applications with a purified human leptin antibody (AHP1616). |
| Storage | <p>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 antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p> |
| 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 #10527 available at:
<https://www.bio-rad-antibodies.com/SDS/PHP198>
10527

Regulatory For research purposes only

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|----------------------------------|---|------------------|---|---------------|---|
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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)
'M362368:200501'

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