

# Recombinant Mouse Leptin








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Rev. 2.00

<b>Catalog Number:</b>	PMP0013
<b>Quantity:</b>	1 mg
<b>Lot Number:</b>	See product label.
<b>Molecular Weight:</b>	16.2 kDa, 147 amino acid residues.
<b>Purity:</b>	≥98% by SDS-PAGE and HPLC analyses.
<b>Biological Activity:</b>	The biological activity was determined by measuring changes in body mass, food intake, and plasma glucose levels in two mouse obesity models: <i>ob/ob</i> and NZO. Mice of both strains were injected once daily with 5 µg leptin per gram body mass for seven days. Significant changes in body mass, food intake, and plasma glucose levels were observed in these mice compared to saline-only controls. Leptin is the protein product of the <i>ob</i> (obese) gene in mice and appears to regulate appetite. Leptin is produced by adipose tissue. Mice with the <i>ob/ob</i> genotype develop a form of diabetes similar to type II (non-insulin dependent) diabetes.
<b>Formulation:</b>	Lyophilized from 0.1% TFA. Sterile filtered through a 0.2 micron filter prior to lyophilization.
<b>Endotoxin:</b>	<0.1 ng/µg
<b>Production:</b>	Produced in <i>E. coli</i> and purified by sequential chromatography.
<b>Reconstitution Recommendation:</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute leptin in sterile, distilled water to a concentration of 1.0–5.0 mg/mL. Further dilutions should be made in aqueous buffers supplemented with carrier protein, such as 0.1–1.0% BSA.
<b>Suggested Working Dilutions:</b>	The optimal concentration should be determined for each specific application.
<b>Storage:</b>	This lyophilized preparation is stable at room temperature for up to 3 weeks, but should be kept at –20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2°C to 8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at –20°C. Avoid repeated freeze/thaw cycles.
<b>Expiration Date:</b>	See product label.

## Explanation of Symbols

The symbols present on the product label are explained below:

Symbol	Description
	Catalog Number
	Research Use Only
	Use by
	Manufacturer
	Without, does not contain
	Protect from light
	Directs the user to consult instructions for use (IFU), accompanying the product.

Symbol	Description
	Batch code
	In vitro diagnostic medical device
	Temperature limitation
	European Community authorized representative
	With, contains
	Consult accompanying documents

### Limited Use Label License: Research Use Only

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