**Catalog number**
Rat Leptin ELISA Kit........................................... 90040

**Intended use**
A high quality enzyme immunoassay for the quantification of rat leptin in fluid, plasma, and serum.

**Test principle**
Crystal Chem's Rat Leptin ELISA kit is an ELISA sandwich assay for rat leptin. It utilizes a specific antibody immobilized onto the microplate wells and an antibody labeled with HRP enzyme to achieve an assay specific to rat leptin.

**Specificity**
- Rat Leptin.......................................................100%
- Mouse Leptin .................................................100%*
- Human Leptin .................................................40%*
- Mouse Insulin..................................................Not detected
- Rat C-Peptide..................................................Not detected
- Glucagon (1-29 or 1-37).................................Not detected
- Human IGF-I...................................................Not detected
- Human IGF-II................................................Not detected

*Can vary from lot to lot. See insert in kit

**Specifications**

<table>
<thead>
<tr>
<th>Sample Types</th>
<th>Serum, Plasma, and Fluid</th>
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</thead>
<tbody>
<tr>
<td>Assay Time</td>
<td>Overnight</td>
</tr>
<tr>
<td>Range</td>
<td>0.2 - 12.8 ng/mL</td>
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<tr>
<td>Sample Size</td>
<td>5 µL</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>200 pg/mL</td>
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<tr>
<td>Precision</td>
<td>CV &lt; 10%</td>
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</tbody>
</table>

**Highlights**
- Kits use only 5 µL sample
- Very sensitive (200 pg/mL)
- Highly specific to rat leptin
- Wide dynamic working range

**Summary of protocol**

1. Add 45 µL diluent, 50 µL serum, with 5 µL sample
2. Incubate overnight at 4 °C
3. Wash plate
4. Add 100 µL conjugate solution
5. Incubate 4 hours at 4 °C
6. Wash plate
7. Add 100 µL substrate solution
8. Incubate 30 minutes
9. Add 100 µL stop solution
10. Measure OD at 450/630 nm

See kit insert or email us for a complete protocol.