



## Recombinant Mouse Leptin

20150227BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>M10-028S</b>
Size:	200 µg
Lot. No.:	According to product label

### Scientific Background

<b>Gene-ID (NCBI):</b>	16846
<b>Synonyms:</b>	Lep; ob; obese

Encoded by the ob (obese) gene, Leptin is an adipose-derived cytokine that suppresses appetite and increases thermogenesis. Leptin exerts its anorectic effect via signaling through a hypothalamic receptor termed OB-R. Leptin has been shown to reduce body weight, food consumption, and plasma glucose levels in various in vivo models. Recombinant Rat Leptin is a 16.2 kDa protein containing 147 amino acid residues.

### Sequence

```
MVPIQKVQDD TKTLIKTIVT RINDISHTQS VSAKQRTVGL  
DFIPGLHPIL SLKMDQTLA VYQQVLTSLP SQNVLQIAND  
LENLRDLLHL LAFSKSCSLP QTSGLQKPES LDGVLEASLY  
STEVVALSRL QGSLQDILQQ LDVSPEC
```

### Database References

<b>Protein RefSeq:</b>	NP_032519.1
<b>Uniprot ID:</b>	P41160
<b>mRNA RefSeq:</b>	NM_008493.3

### Product Specifications

<b>Expressed in</b>	E. coli
<b>Purity</b>	> 98% by SDS-PAGE & HPLC analyses
<b>Endotoxin level</b>	< 0.1 ng /µg of protein (<1EU/µg).
<b>Formulation</b>	lyophilized
<b>Length (aa):</b>	147
<b>MW:</b>	16.2 kDa

**Biological Activity:** Murine Leptin has been shown to be biologically active in two different mouse obesity models, ob/ob and NZO. Both strains of mice were treated via intraperitoneal injection once daily at a dose of 5 µg Leptin/gm of body weight for 14 days. Significant eff



**AVOID REPEATED FREEZE AND THAW CYCLES!**