

Recombinant Murine Leptin

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|---------------------|--|--------|
| CATALOG #: | 4367-02 | 200 µg |
| | 4367-1 | 1 mg |
| | 4367-5 | 5 mg |
| LOT #: | _____ | |
| SOURCE: | <i>E. coli</i> | |
| PURITY: | >98% by SDS-PAGE Endotoxin level is <0.1 ng per µg of Leptin. | |
| MOL. WEIGHT: | 16.2 kDa | |
| FORM: | Lyophilized with no additive | |

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in 10 mM HCl to a concentration of 1 mg/ml. The solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or –20°C for future use.

STORAGE CONDITIONS:

The lyophilized protein is best stored at -20°C. Reconstituted Leptin should be stored at working aliquots at –20°C.

DESCRIPTION:

Leptin (Anti-Obesity Protein) is the protein product of the *ob* (obese) gene in mice and seems to be involved in appetite control. The *ob* gene is expressed in adipose tissue and is thought to regulate the body's fat stores. Mice with the *ob/ob* genotype also develop a form of diabetes similar to type II (non-insulin dependent) diabetes. Murine Leptin is a 16 kDa protein containing 147 amino acid residues.

BIOLOGICAL ACTIVITY:

Determined in an in vivo assay using the *ob/ob* mouse obesity model 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 7 days. Significant effects on body weight, food consumption, and plasma glucose levels were observed to saline-treated controls.

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