

Recombinant Human Leptin

CATALOG #:	4366-1	1 mg
	4366-5	5 mg
	4366-10	10 mg
LOT #:	_____	
SOURCE:	<i>E. coli</i>	
PURITY:	>98% by SDS-PAGE and HPLC analyses Endotoxin level is <0.1 ng per µg of Leptin.	
MOL. WEIGHT:	16.0 kDa	
FORM:	Sterile filtered and lyophilized	

RECONSTITUTION:

Centrifuge the vial prior to opening. Add 15 mM sterile HCl (0.5 ml/1 mg vial or 5 ml/10 mg vial) to the vial. After the protein is completely dissolved, add 7.5 mM sterile NaOH (0.3 ml/1 mg vial or 3 ml/10 mg vial) to bring the pH to approximately 5.2.

STORAGE CONDITIONS:

Stored at -20°C or lower. Reconstituted Leptin should be stored in working aliquots at -20°C. If precipitation occurs, centrifuge briefly to remove insolubles. The active form of leptin should be in solution.

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. Human Leptin is a 16 kDa protein containing 146 amino acid residues.

BIOLOGICAL ACTIVITY:

BioVision's human 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 7 days. Significant effects on body weight, food consumption, and plasma glucose levels were observed to saline-treated controls.

USAGE: For Research Use Only! Not to be used in humans.

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