

Recombinant Rat Leptin

CATALOG #:	4368-02	200 µg
	4368-1	1 mg
	4368-5	5 mg
LOT #:	_____	
SOURCE:	<i>E. coli</i>	
PURITY:	>95% by SDS-PAGE and HPLC analyses Endotoxin level is <0.1 ng per µg of Leptin.	
MOL. WEIGHT:	16.2 kDa	
FORM:	Lyophilized from 4.5 µM NaHCO ₃ .	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1–1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or –20°C for three months. For long-term storage it is recommended to add a carrier protein (0.1% HAS or BSA).

STORAGE CONDITIONS:

The lyophilized protein is best stored at -20°C. Reconstituted Leptin should be stored in working aliquots at -20°. Avoid freeze/thaw cycles.

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. Rat Leptin is a 16.2 kDa protein containing 147 amino acid residues.

BIOLOGICAL ACTIVITY:

The ED50 determined by the leptin-dependent stimulation of human OB-R transfected murine BaF3 indicator cells is 0.35-0.06 ng/ml.

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