

Recombinant Human Leptin

CATALOG #: 4366-02 200 µg
 4366-1 1 mg
 4366-5 5 mg
 4366-10 10 mg

LOT #: _____

SOURCE: *E. coli*

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 3 mM acetic acid at a final concentration of 5-10 mg/ml. After the protein is completely dissolved, it can be diluted in other buffers for use.

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 insoluble particles. 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.

RELATED PRODUCTS:

Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit

Growth Factors and Cytokines

Monoclonal and Polyclonal Antibodies