

## Murine Leptin

Synonyms: OB Protein, Obesity Protein, OBS, Obesity factor.

*PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING*

| Size   | Order #      | Lot # | Expiry Date |
|--------|--------------|-------|-------------|
| 200 µg | 1650.960.200 |       |             |
| 1 mg   | 1650.960.199 |       |             |
| 5 mg   | 1650.960.599 |       |             |

Please enquire for bulk quantities and other vial sizes

### Description

Leptin Murine Recombinant produced in *E.Coli* is a single, non-glycosylated, polypeptide chain containing 147 amino acids and having a molecular mass of 16.2 kDa.

- **Source** *E. Coli*
- **Purity** ≥ 95 % (SDS-PAGE, SEC-HPLC)
- **Endotoxin level** ≤ 0.1ng/µg (≤ 1EU/µg)
- **Buffer** The mouse Leptin was lyophilized from a concentrated (1mg/ml) solution containing 0.1% TFA\*
- **Physical state** Sterile filtered, lyophilized

### Biological Activity

Biological activity of Mouse Leptin is performed 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 5ug Leptin/gram body weight for a period of 14 days. Significant effects on body weight, food consumption, and plasma glucose levels were observed to saline-treated controls.

### Reconstitution

We recommend a quick spin followed by reconstitution in sterile water to a concentration of at least 100 µg/ml, which can then be further diluted to other aqueous solutions. Do not vortex.

### Stability

Lyophilized Leptin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Leptin should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Please avoid repeated freeze-thaw cycles.**

### Amino Acid Sequence

MVPIQKVQDD TKTLIKTIVT RINDISHTQS VSAKQRVTGL DFIPGLHPIL SLSKMDQTLA VYQQVLTSLP  
 SQNVLQIAND LENLRDLLHL LAFSKSCSLP QTSGLQKPES LDGVLEASLY STEVVALSRL QGSLQDILQQ  
 LDVSPEC

**Usage:** For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

\*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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