# 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** ≤ 0.1 ng/µg (≤ 1 EU/µg)
- **Buffer** The mouse Leptin was lyophilized from a concentrated (1 mg/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 5 ug 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, order number: 2835.955.xyz or 2835.958.xyz, or BSA, order number: 2835.919.xyz). 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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