



BIOCHROM AG

TECHNICAL DATA SHEET

Murine Leptin

Murine Leptin, recombinant

Synonyms: Obesity protein (OB)

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date*
1000 µg	1650.960.199	3503097610	November 2012

Description

Recombinant murine Leptin is a 16.2 kDa polypeptide chain containing 147 amino acid residues. Encoded by the ob (obese) gene, leptin is an adipose-derived cytokine that suppresses appetite and increases thermogenesis. Leptin exerts its anorectic effect via signaling through a hypothalamic receptor termed OB-R. Leptin has been shown to reduce body weight, food consumption, and plasma glucose levels in various *in vivo* models.

- **Biological activity** See below
- **Source** *E. coli*
- **Purity** ≥ 98 % (SDS-PAGE gel and HPLC)
- **Endotoxin level** ≤ 0.1ng/µg (≤ 1EU/µg)
- **Stabilizer** None
- **Buffer** 0.1% TFA
- **Physical state** Sterile filtered, lyophilized

Biological activity

The biological activity was determined by an *in vivo* assay using the ob/ob mouse obesity model and NZO. Both strains of mice were treated via intraperitoneal injection once daily at a dose of 5µg 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.

Reconstitution

We recommend a quick spin followed by reconstitution in water to a concentration of 1.0-5.0 mg/ml. *Do not vortex*. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Stability

The lyophilized protein is stable at room temperature for up 1 month. Working aliquots stored with a carrier protein are stable for at least 3 months at -20°C to -80°C. **Please avoid repeated freeze thaw cycles.**

Usage

FOR RESEARCH USE ONLY

NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

* For lyophilized product if stored as indicated. Please contact our technical support if the product has expired.

Biochrom AG, Leonorenstr. 2-6, 12247 Berlin
Phone: +49 30 77 99 06-92
Fax: +49 30 771 00 12
Email: info@biochrom.de
<http://www.biochrom.de>