

Product: Leptin, Murine, Recombinant
Catalog #: 11-LEP-M
Amount: 200 µg

DESCRIPTION: Recombinant Murine Leptin (rmLeptin)
rmLeptin is a single, non-glycosylated, polypeptide chain containing 147 amino acids and having a molecular mass of 16,240 Dalton.
The sequence of the first five N-terminal amino acids was determined and was found to be Met-Val-Pro-Ile-Gln.

SOURCE: *E.Coli* Expression System

PURITY: Greater than 97.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Anion-exchange FPLC.
(c) Analysis by reducing and non-reducing SDS-PAGE Silver-Stained gel.

ENDOTOXIN: Less than 0.1 ng/µg (IEU/µg) of rmLeptin

DIMERS & AGREGATES: Less than 1% as determined by silver-stained SDS-PAGE gel analysis

FORM: Purified

PROTEIN CONTENT: Protein quantitation was carried out by two independent methods:
1. UV spectroscopy at 280 nm using the absorbency value of 0.201 as the extinction coefficient for a 0.1% (1 mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences
2. Analysis by RP-HPLC, using a calibrated solution of murine Leptin as a Reference Standard.

STORAGE: -20°C (aliquot), avoid repeated freeze and thaw cycles.

BIOLOGICAL ACTIVITY: rmLeptin is fully biologically active when compared to standards.
Biological activity of Murine 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 5µg 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.

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