

Recombinant Murine Leptin

#R00620

Size: 100 µg/500 µg

Stability & Storage

- Please use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- Lyophilized protein should be stored at ≤ -20°C, stable for 12 months after receipt.
- Reconstituted protein solution can be stored at 2-8°C for 1-2 weeks.
- Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

Leptin is a hormone secreted from white adipocytes and plays important role in the regulation of food intake and energy balance. Murine Leptin shares approximately 96% and 84% sequence identity with the rat and human protein, respectively. Murine Leptin cDNA encodes a 167 amino acid residue protein with a 21 amino acid residue signal sequence that is cleaved to yield the 146 amino acid residue mature protein. The expression of Leptin mRNA has been shown to be restricted to adipose tissue.

AA Sequence

Val22-Cys167, Accession #P41160

Reconstitution

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Reconstitute in sterile distilled water to a concentration of 0.1-1.0 mg/mL. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Product Specification

Species	Murine
Source	Escherichia coli.
Molecular Weight	Recombinant Murine Leptin Protein, a monomer, containing 146 amino acid residues, has a predicted molecular mass of approximately 16.0 kDa.
Purity	> 98% by SDS-PAGE gel and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The biological activity was determined by the cell proliferation assay using BaF3 mouse proB cells transfected with human Leptin R. The expected ED ₅₀ is less than 0.45 ng/ml, corresponding to a

	specific activity of > 2.2 × 10 ⁶ IU/mg.
Formulation	Lyophilized from a 0.22 µm filtered solution in Tris-HCl, NaCl, with Tween-20. See CoA for details.
Endotoxin	Less than 0.1 EU/µg of rMuLeptin as determined by LAL test.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.