

**Product:** Leptin, Rat, Recombinant  
**Catalog #:** 11-LEP-R  
**Amount:** 200 µg

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**DESCRIPTION:** Recombinant Rat Leptin (rHuLeptin)  
rHuLeptin 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-His.

**SOURCE:** *E.Coli* Expression System

**PURITY:** Greater than 95.0% 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 rrLeptin

**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 rat Leptin as a Reference Standard.

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

**BIOLOGICAL ACTIVITY:** rHuLeptin is fully biologically active when compared to standards.  
The ED50, calculated by the leptin-dependant stimulation of Human OB-R transfected murine BaF3 indicator cells is 0.35-0.6 ng/ml

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