

**Product:** Leptin, Human Recombinant  
**Catalog #:** 11-LEP-H  
**Amount:** 200 µg

---

**DESCRIPTION:** Recombinant Human 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-Gln.

**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 rHuLeptin

**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 0.878 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 human 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 0.5-0.06 ng/ml

This product is sold for laboratory research use or further manufacturing only and should not be used for human therapeutic or diagnostic applications. The information presented is believed to be accurate; however, said information and products are offered without warranty or guarantee since the ultimate conditions of use and the variability of the materials treated are beyond our control. Nothing disclosed herein is to be construed as a recommendation to use our products in violation of any patents. Under no circumstances shall ARP American Research Products, Inc. be liable for damages, whether consequential, compensatory, incidental or special, strict liability or negligence, breach of warranty or any other theory arising out of the use of the products available from ARP American Research Products, Inc. Nothing contained herein warrants that the use of the products will not infringe on the claims of any patents covering the product itself or the use thereof in combination with other products or in the operation of any process.