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## Product Data Sheet

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Product Name: Leptin Protein

Cat. No.: GP20685

Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	OB Protein; Obesity Protein; OBS; Obesity factor.		
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Val-Pro-Ile-Gln.		
Solubility	The lyophilized Leptin is very soluble in water and most aqueous buffers below and above the isoelectric point.		
Formulation	The protein was lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO <sub>3</sub> .		

### Introduction

A 16-kDa peptide hormone secreted from white adipocytes and implicated in the regulation of food intake and energy balance. Leptin provides the key afferent signal from fat cells in the feedback system that controls body fat stores.

### Biological Activity

Biological Activity is evidenced by inducing proliferation of BAF/3 cells stably transfected with the long form of human leptin receptor.

### Stability

Lyophilized Leptin although stable at room temperature, should be stored desiccated below 0°C . Reconstituted Leptin is best stored refrigerated at 4°C .

### Background

Leptin Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 146 amino acids and having a molecular mass of 16 kDa. The Leptin is purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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