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## Product Data Sheet

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Product Name: Leptin Dog  
Cat. No.: GP20702  
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-Arg.   |                    |                       |
| Solubility          | It is recommended to reconstitute the lyophilized Leptin in sterile 0.4% NaHCO <sub>3</sub> adjusted to pH 8-9, not less than 100µg/ml, which can then be further diluted to other aqueous solutions. |                    |                       |
| Formulation         | The protein was lyophilized from a concentrated (1mg/ml) solution with 0.02% 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 active as 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 for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution Leptin should be stored at 4°C between 2-7 days and for future use below -18°C .For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

### Background

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

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Leptin Dog 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.

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