
Product Data Sheet

Product Name: Leptin Porcine
Cat. No.: GP20697
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-Trp.		
Solubility	It is recommended to reconstitute the lyophilized recombinant porcine leptin in sterile 0.4% NaHCO ₃ 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 ₃ .		

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

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